



Tugas Akhir

"Aplikasi Program Microsoft Visual Basic 6
dalam Menganalisis Daya Dukung Pondasi Tiang Pancang"

LAMPIRAN 1

Tabel Data Pengukuran Hasil Uji CPT (kedalaman 0-7,8 m)

CPT V.2.0
Cone Penetration Test
Project : PT NAGA MAS
Location : KIC BLOK 27 SEMARANG
Job No : 3
Point : 3
Test No : 3
Test By : andhi
Test Date : 10 FEB 2017

No.	Depth (m)	R1	R2	LF	LFF	TF	FR
0	0.0	0.00	0.00	0.00	0.00	0.00	0.00
1	0.2	0.00	0.00	0.00	0.00	0.00	0.00
2	0.4	9.00	17.00	0.80	16.00	16.00	8.89
3	0.6	11.00	17.00	0.60	12.00	28.00	5.45
4	0.8	11.00	17.00	0.60	12.00	40.00	5.45
5	1.0	11.00	17.00	0.60	12.00	52.00	5.45
6	1.2	9.00	17.00	0.80	16.00	68.00	8.89
7	1.4	20.00	27.00	0.70	14.00	82.00	3.50
8	1.6	30.00	37.00	0.70	14.00	96.00	2.33
9	1.8	20.00	30.00	1.00	20.00	116.00	5.00
10	2.0	15.00	25.00	1.00	20.00	136.00	6.67
11	2.2	15.00	25.00	1.00	20.00	156.00	6.67
12	2.4	25.00	35.00	1.00	20.00	176.00	4.00
13	2.6	30.00	40.00	1.00	20.00	196.00	3.33
14	2.8	35.00	45.00	1.00	20.00	216.00	2.86
15	3.0	30.00	40.00	1.00	20.00	236.00	3.33
16	3.2	30.00	40.00	1.00	20.00	256.00	3.33
17	3.4	30.00	40.00	1.00	20.00	276.00	3.33
18	3.6	30.00	40.00	1.00	20.00	296.00	3.33
19	3.8	30.00	40.00	1.00	20.00	316.00	3.33
20	4.0	25.00	35.00	1.00	20.00	336.00	4.00
21	4.2	25.00	35.00	1.00	20.00	356.00	4.00
22	4.4	25.00	35.00	1.00	20.00	376.00	4.00
23	4.6	25.00	35.00	1.00	20.00	396.00	4.00
24	4.8	25.00	35.00	1.00	20.00	416.00	4.00
25	5.0	25.00	35.00	1.00	20.00	436.00	4.00
26	5.2	25.00	35.00	1.00	20.00	456.00	4.00
27	5.4	25.00	35.00	1.00	20.00	476.00	4.00
28	5.6	25.00	35.00	1.00	20.00	496.00	4.00
29	5.8	25.00	35.00	1.00	20.00	516.00	4.00
30	6.0	25.00	35.00	1.00	20.00	536.00	4.00
31	6.2	25.00	35.00	1.00	20.00	556.00	4.00
32	6.4	25.00	35.00	1.00	20.00	576.00	4.00
33	6.6	25.00	35.00	1.00	20.00	596.00	4.00
34	6.8	25.00	35.00	1.00	20.00	616.00	4.00
35	7.0	25.00	35.00	1.00	20.00	636.00	4.00
36	7.2	40.00	50.00	1.00	20.00	656.00	2.50
37	7.4	35.00	45.00	1.00	20.00	676.00	2.86
38	7.6	30.00	40.00	1.00	20.00	696.00	3.33
39	7.8	30.00	40.00	1.00	20.00	716.00	3.33



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Lanjutan Tabel Data Pengukuran Hasil Uji CPT (kedalaman 8-18 m)

40	8.0	30.00	40.00	1.00	20.00	736.00	3.33
41	8.2	30.00	40.00	1.00	20.00	756.00	3.33
42	8.4	45.00	55.00	1.00	20.00	776.00	2.22
43	8.6	45.00	55.00	1.00	20.00	796.00	2.22
44	8.8	50.00	60.00	1.00	20.00	816.00	2.00
45	9.0	50.00	60.00	1.00	20.00	836.00	2.00
46	9.2	50.00	60.00	1.00	20.00	856.00	2.00
47	9.4	50.00	60.00	1.00	20.00	876.00	2.00
48	9.6	50.00	60.00	1.00	20.00	896.00	2.00
49	9.8	60.00	70.00	1.00	20.00	916.00	1.67
50	10.0	50.00	60.00	1.00	20.00	936.00	2.00
51	10.2	60.00	70.00	1.00	20.00	956.00	1.67
52	10.4	70.00	80.00	1.00	20.00	976.00	1.43
53	10.6	55.00	65.00	1.00	20.00	996.00	1.82
54	10.8	65.00	75.00	1.00	20.00	1016.00	1.54
55	11.0	60.00	70.00	1.00	20.00	1036.00	1.67
56	11.2	65.00	75.00	1.00	20.00	1056.00	1.54
57	11.4	45.00	55.00	1.00	20.00	1076.00	2.22
58	11.6	50.00	60.00	1.00	20.00	1096.00	2.00
59	11.8	50.00	60.00	1.00	20.00	1116.00	2.00
60	12.0	50.00	60.00	1.00	20.00	1136.00	2.00
61	12.2	60.00	70.00	1.00	20.00	1156.00	1.67
62	12.4	50.00	60.00	1.00	20.00	1176.00	2.00
63	12.6	50.00	60.00	1.00	20.00	1196.00	2.00
64	12.8	65.00	75.00	1.00	20.00	1216.00	1.54
65	13.0	60.00	70.00	1.00	20.00	1236.00	1.67
66	13.2	60.00	70.00	1.00	20.00	1256.00	1.67
67	13.4	50.00	60.00	1.00	20.00	1276.00	2.00
68	13.6	50.00	60.00	1.00	20.00	1296.00	2.00
69	13.8	45.00	55.00	1.00	20.00	1316.00	2.22
70	14.0	45.00	55.00	1.00	20.00	1336.00	2.22
71	14.2	50.00	60.00	1.00	20.00	1356.00	2.00
72	14.4	50.00	60.00	1.00	20.00	1376.00	2.00
73	14.6	50.00	60.00	1.00	20.00	1396.00	2.00
74	14.8	51.00	60.00	0.90	18.00	1414.00	1.76
75	15.0	51.00	60.00	0.90	18.00	1432.00	1.76
76	15.2	50.00	60.00	1.00	20.00	1452.00	2.00
77	15.4	50.00	60.00	1.00	20.00	1472.00	2.00
78	15.6	60.00	70.00	1.00	20.00	1492.00	1.67
79	15.8	60.00	70.00	1.00	20.00	1512.00	1.67
80	16.0	60.00	70.00	1.00	20.00	1532.00	1.67
81	16.2	60.00	70.00	1.00	20.00	1552.00	1.67
82	16.4	60.00	70.00	1.00	20.00	1572.00	1.67
83	16.6	60.00	70.00	1.00	20.00	1592.00	1.67
84	16.8	60.00	71.00	1.10	22.00	1614.00	1.83
85	17.0	65.00	75.00	1.00	20.00	1634.00	1.54
86	17.2	70.00	80.00	1.00	20.00	1654.00	1.43
87	17.4	65.00	75.00	1.00	20.00	1674.00	1.54
88	17.6	65.00	75.00	1.00	20.00	1694.00	1.54
89	17.8	70.00	80.00	1.00	20.00	1714.00	1.43
90	18.0	70.00	80.00	1.00	20.00	1734.00	1.43



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Keterangan notasi (Lampiran 1):

$$R1 = q_c = \text{Tahanan konus (kg/cm}^2\text{)}$$

$$R2 = q_c + q_f = \text{Mengukur resistansi total dari kerucut dan batang (kg/cm}^2\text{)}$$

$$q_f = \text{Batang resistensi (shaft friction resistance) (kg/cm}^2\text{)}$$

$$L_f = \text{Local friction (kg/cm}^2\text{)}$$

$$= ((q_c + q_f) - (q_c)) / 10$$

$$f_s = \text{Skin friction (kg/cm}^2\text{)}$$

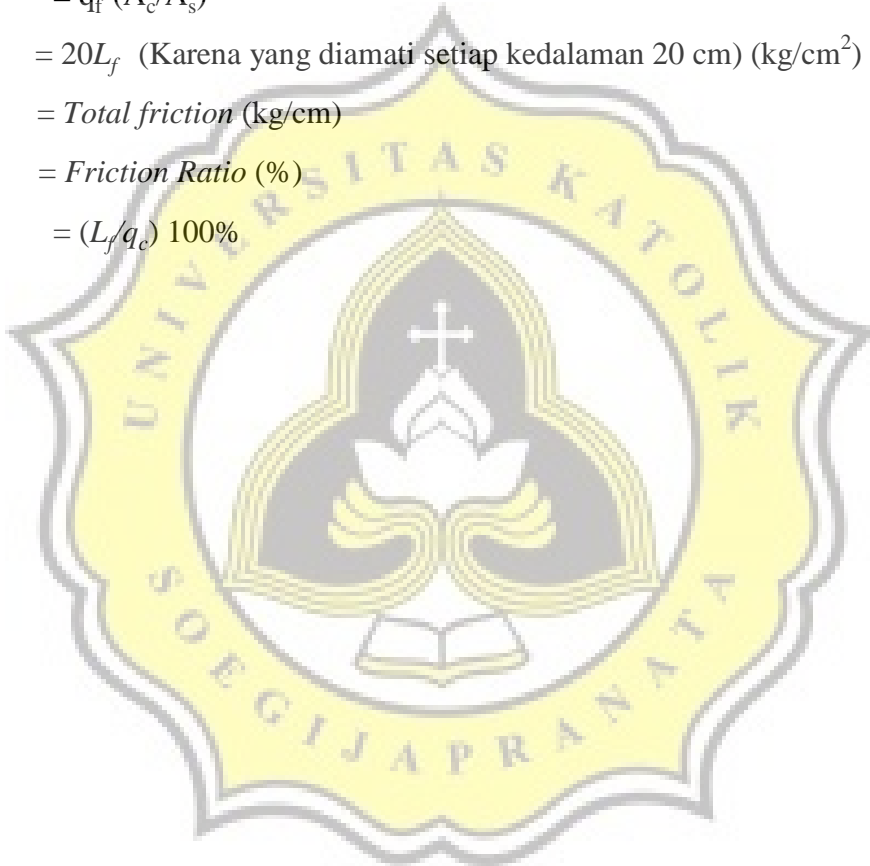
$$= q_f (A_c / A_s)$$

$$L_{ff} = 20L_f \text{ (Karena yang diamati setiap kedalaman 20 cm) (kg/cm}^2\text{)}$$

$$T_f = \text{Total friction (kg/cm)}$$

$$f_r = \text{Friction Ratio (\%)}$$

$$= (L_f / q_c) 100\%$$

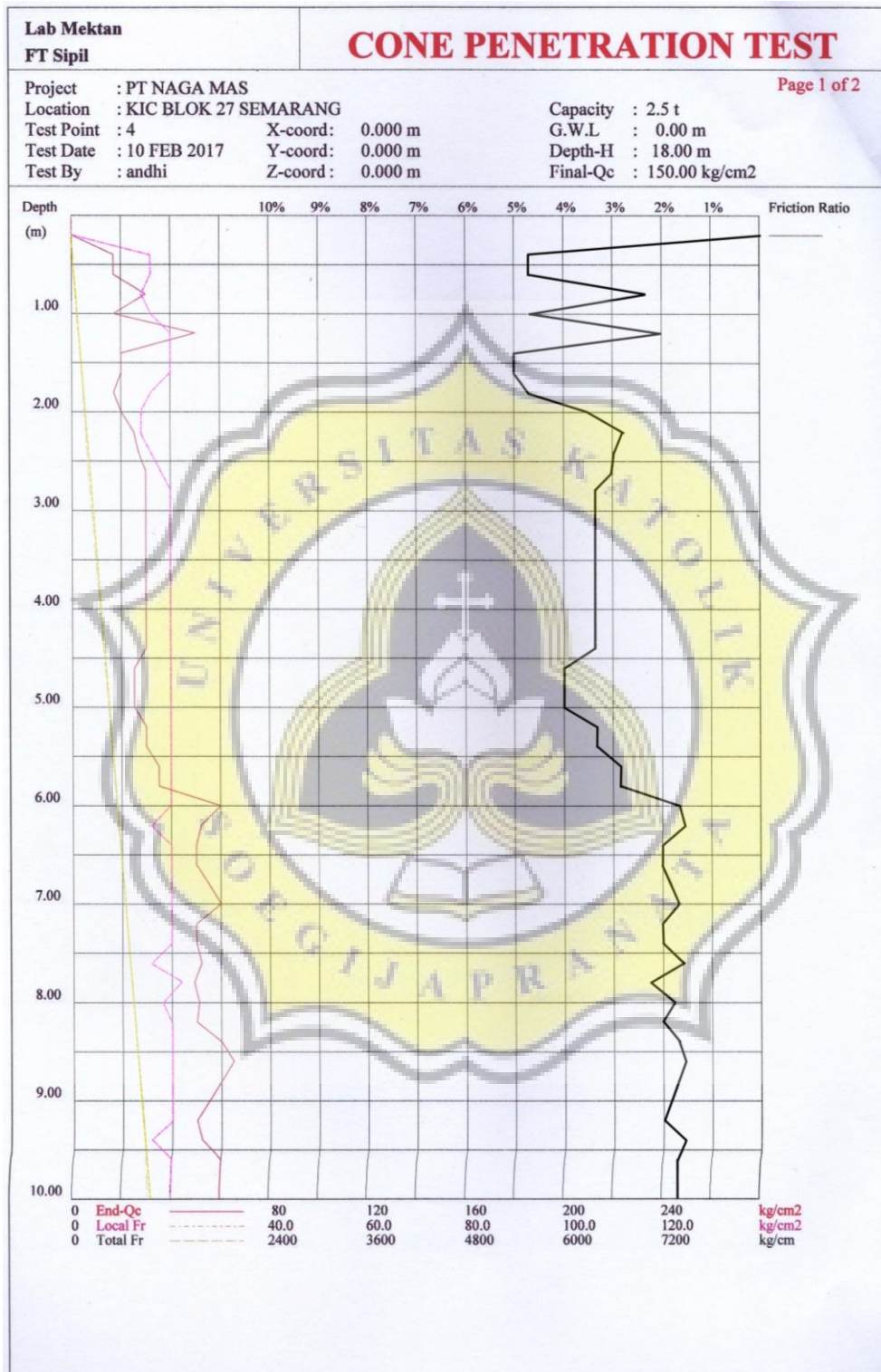




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Grafik dari data Uji CPT (kedalaman 0-10 m)

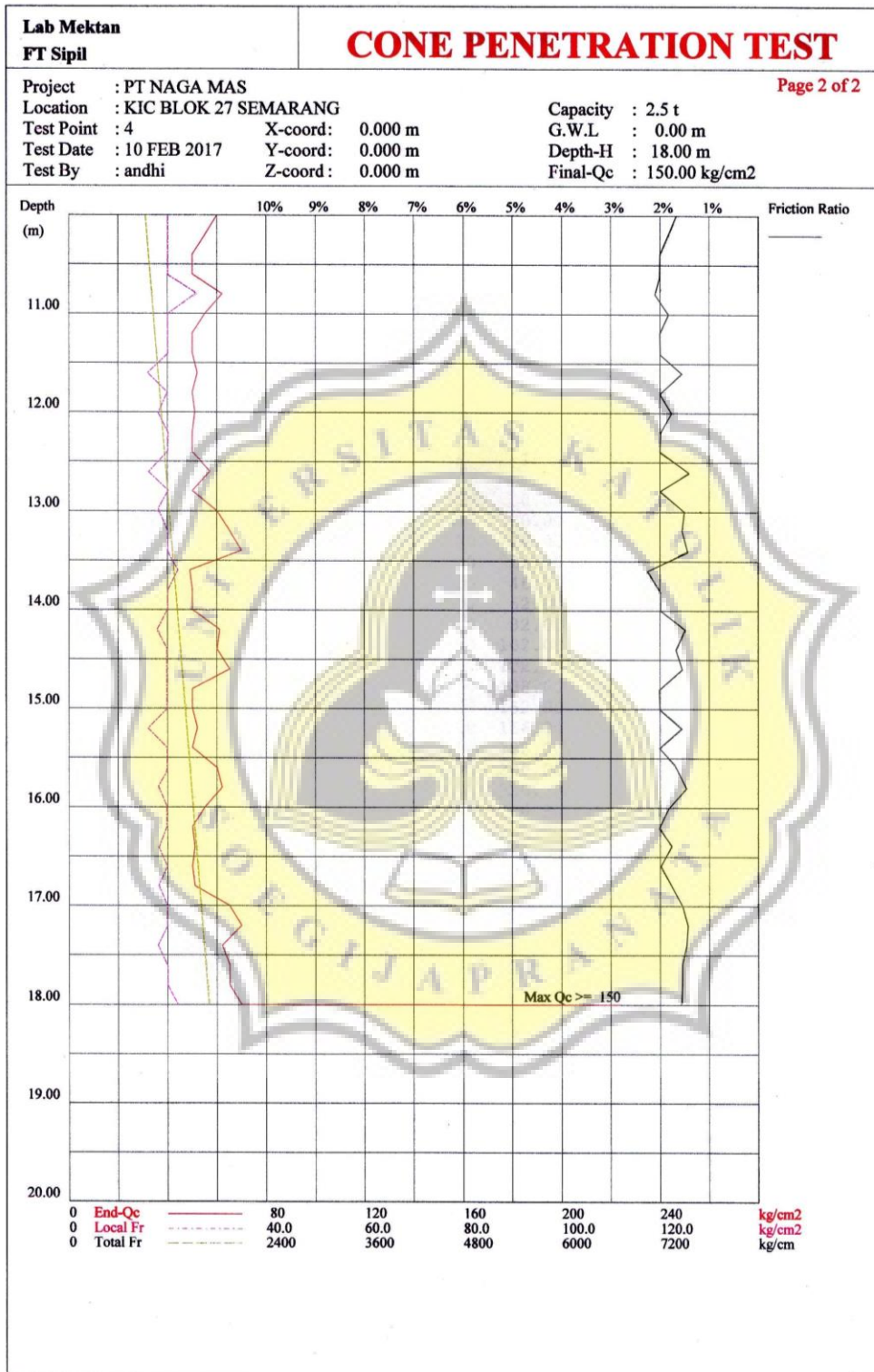




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Lanjutan Grafik dari data Uji CPT (kedalaman 10-20 m)





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LAMPIRAN 2

Data N-SPT

Lab Mektan FT Sipil Unika Soegijapranata		Project No : BII Project : PT NAGA MAS Location : BUKIT KENCANA JAYA - SEMARANG	BORING LOG II														
Sta+Offset : 0.000+ 0.000 Elevation : 0.000 Weather :		Start Date : 3 FEB 2017 Finish Date : 10 FEB 2017 Bore Depth : 40 m	Core Dia : 0 cm Casing Dia : 0 cm Described by : ANDHI														
G W L	Depth (m)	Symbol	Core Recovery (%) 40 80	Description	RQD % k cm/s	Sampling	SPT (Blows/15 cm)										
							N1	N2	N3	N	20	40					
	0			- Clayey Sand Lempung warna abu-abu													
	2																
	4																
	6			- Silty Clay Lempung warna coklat abu-abu.													
	8																
	10																
	12																
	14																
	16																
	18			- Clayey Silt Lempung padat warna hitam abu-abu.													
	20																

0-10% Trace
10-20% Some
20-35% Adjunctive
35-50% And

Split Spoon Shelby Tube
 Rock Core Bag Sample

The stratification lines represent approximate strata boundaries. In situations, the transition may be gradual.



LAMPIRAN 3

Kode List Menu Halaman Utama

```
Dim db As ADODB.Connection
Dim rs As ADODB.Recordset
Public sql As String
Sub koneksi()
Set db = New ADODB.Connection
db.CursorLocation = adUseClient
db.Open "proyek_ta"
End Sub
Private Sub tampilanCPT()
Dim sql As String
Set rs = New ADODB.Recordset
sql = "SELECT id_titik, Kedalaman, Conus, ConusCleeve, FR, ket_tanah FROM tabel_cpt
WHERE id_titik ='" & Combo2 & "' AND id_proyek ='" & Text6 & "' "
rs.Open sql, db, adOpenDynamic, adLockOptimistic
Set DataGrid1.DataSource = rs
End Sub
Private Sub tampilanSPT()
Dim sql As String
Set rs = New ADODB.Recordset
sql = "SELECT id_titik, Kedalaman, N1, N2, N3, N, ket_tanah FROM tabel_spt WHERE
id_titik ='" & Combo3 & "' AND id_proyek ='" & Text6 & "' "
rs.Open sql, db, adOpenDynamic, adLockOptimistic
Set DataGrid2.DataSource = rs
End Sub
Private Sub TambahDataCPT()
Dim awal, akhir, interval As Variant
```



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```
awal = CDec(Text19.Text)
```

```
akhir = CDec(Text9.Text)
```

```
interval = CDec(Text10.Text)
```

```
Do While awal <= akhir
```

```
Adodc1.Recordset.AddNew
```

```
Adodc1.Recordset.Fields("id_proyek") = Text6.Text
```

```
Adodc1.Recordset.Fields("id_titik") = Combo2.Text
```

```
Adodc1.Recordset.Fields("Kedalaman") = awal
```

```
Adodc1.Recordset.Fields("Conus") = 0
```

```
Adodc1.Recordset.Fields("ConusCleeve") = 0
```

```
Adodc1.Recordset.Fields("FR") = 0
```

```
Adodc1.Recordset.Fields("ket_tanah") = None
```

```
awal = awal + interval
```

```
Loop
```

```
Set DataGrid1.DataSource = Adodc1.Recordset
```

```
End Sub
```

```
Private Sub TambahDataSPT()
```

```
Dim awal2, akhir2, interval2 As Variant
```

```
awal2 = CDec(Text13.Text)
```

```
akhir2 = CDec(Text14.Text)
```

```
interval2 = CDec(Text15.Text)
```

```
Do While awal2 <= akhir2
```

```
AdodcSPT.Recordset.AddNew
```

```
AdodcSPT.Recordset.Fields("id_proyek") = Text6.Text
```

```
AdodcSPT.Recordset.Fields("id_titik") = Combo3.Text
```

```
AdodcSPT.Recordset.Fields("Kedalaman") = awal2
```

```
AdodcSPT.Recordset.Fields("N1") = 0
```

```
AdodcSPT.Recordset.Fields("N2") = 0
```




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```
AdodcSPT.Recordset.Fields("N3") = 0
```

```
AdodcSPT.Recordset.Fields("N") = None
```

```
AdodcSPT.Recordset.Fields("ket_tanah") = None
```

```
awal2 = awal2 + interval2
```

```
Loop
```

```
Set DataGrid2.DataSource = AdodcSPT.Recordset
```

```
End Sub
```

```
Private Sub TambahDataPondasiCPT()
```

```
'simpan data
```

```
    Dim SQLTambah As String
```

```
    SQLTambah = "Insert Into tabel_pondasi
```

```
(id_proyek,id_titik,kedalaman_p,panjang_p,lebar_p,kedalaman_maks,kedalaman_interval)
```

```
values (" & Text6 & "," & Text7 & "," & Text19 & "," & Text19 & "," & Text12 & "
```

```
"," & Text9 & "," & Text10 & ")"
```

```
    db.Execute SQLTambah
```

```
'Adodc2.Recordset.AddNew
```

```
'Adodc2.Recordset.Fields("id_proyek") = Text6.Text
```

```
'Adodc2.Recordset.Fields("id_titik") = Text7.Text
```

```
'Adodc2.Recordset.Fields("kedalaman_p") = 0
```

```
'Adodc2.Recordset.Fields("panjang_p") = 0
```

```
'Adodc2.Recordset.Fields("lebar_p") = Text12
```

```
'Adodc2.Recordset.Fields("kedalaman_maks") = Text9
```

```
'Adodc2.Recordset.Fields("kedalaman_interval") = 0.2
```

```
End Sub
```

```
Sub kolomCPT()
```

```
DataGrid1.Columns(0).Caption = "ID Titik CPT"
```

```
DataGrid1.Columns(0).Width = "1200"
```

```
DataGrid1.Columns(1).Caption = "Kedalaman (m)"
```



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```
DataGrid1.Columns(1).Width = "1005"  
DataGrid1.Columns(2).Caption = "Conus (kg/cm2)"  
DataGrid1.Columns(2).Width = "1005"  
DataGrid1.Columns(3).Caption = "Conus + Cleeve (kg/cm2)"  
DataGrid1.Columns(3).Width = "1200"  
DataGrid1.Columns(4).Caption = "FR"  
DataGrid1.Columns(4).Width = "1005"  
DataGrid1.Columns(5).Caption = "Keterangan Tanah"  
DataGrid1.Columns(5).Width = "2000"
```

End Sub

Sub kolomSPT()

```
DataGrid2.Columns(0).Caption = "ID Titik SPT"  
DataGrid2.Columns(0).Width = "1200"  
DataGrid2.Columns(1).Caption = "Kedalaman (m)"  
DataGrid2.Columns(1).Width = "1005"  
DataGrid2.Columns(2).Caption = "N1"  
DataGrid2.Columns(2).Width = "500"  
DataGrid2.Columns(3).Caption = "N2"  
DataGrid2.Columns(3).Width = "500"  
DataGrid2.Columns(4).Caption = "N3"  
DataGrid2.Columns(4).Width = "500"  
DataGrid2.Columns(5).Caption = "N spt (N2+N3)"  
DataGrid2.Columns(5).Width = "1080"  
DataGrid2.Columns(6).Caption = "Keterangan Tanah"  
DataGrid2.Columns(6).Width = "2000"
```

End Sub

Private Sub KosongkanTextCPT()

Text9.Text = ""

Text11.Text = ""



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```
Text12.Text = ""
```

```
End Sub
```

```
Private Sub KosongkanTextSPT()
```

```
Text14.Text = ""
```

```
Text15.Text = ""
```

```
Text16.Text = ""
```

```
Text17.Text = ""
```

```
End Sub
```

```
Private Sub Enable_trueIsiSPT()
```

```
Text14.Enabled = True
```

```
Text15.Enabled = True
```

```
Text16.Enabled = True
```

```
Text17.Enabled = True
```

```
End Sub
```

```
Private Sub Enable_trueIsiCPT()
```

```
Text9.Enabled = True
```

```
Text11.Enabled = True
```

```
Text12.Enabled = True
```

```
End Sub
```

```
Private Sub Enable_falseIsiCPT()
```

```
Text9.Enabled = False
```

```
Text11.Enabled = False
```

```
Text12.Enabled = False
```

```
End Sub
```

```
Private Sub Enable_falseIsiSPT()
```

```
Text14.Enabled = False
```

```
Text15.Enabled = False
```

```
Text16.Enabled = False
```

```
Text17.Enabled = False
```

```
End Sub
```





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'atur kondisi awal saat form dipanggil

Private Sub KondisiawalCPT()

 KosongkanTextCPT

 Enable_falseIsiCPT

 btn_editCPT.Enabled = False

 btn_hapusCPT.Enabled = False

End Sub

Private Sub KondisiawalSPT()

 KosongkanTextSPT

 Enable_falseIsiSPT

 btn_editSPT.Enabled = False

 btn_hapusSPT.Enabled = False

End Sub

Private Sub btn_baruCPT_Click()

If btn_baruCPT.Caption = "Data Baru" Then

 btn_baruCPT.Caption = "&Simpan"

 btn_batalCPT.Enabled = True

 btn_cariCPT.Enabled = False

 btn_editCPT.Enabled = False

 Enable_trueIsiCPT

 KosongkanTextCPT

Else

 'mencegah data kosong sebelum disimpan

 If Combo2 = "" Or Text9 = "" Then

 MsgBox "Data Belum Lengkap...!"

 Else

 Text9 = Text9.Text + 0.2

 Call TambahDataCPT

 Text9 = Text9.Text - 0.2

 btn_baruCPT.Caption = "Data Baru"



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```
Enable_falseIsiCPT
```

```
btn_batalCPT.Enabled = False
```

```
btn_cariCPT.Enabled = True
```

```
End If
```

```
End If
```

```
kolomCPT
```

```
tampilanCPT
```

```
btn_editCPT.Enabled = True
```

```
End Sub
```

```
Private Sub btn_baruSPT_Click()
```

```
If btn_baruSPT.Caption = "Data Baru" Then
```

```
    btn_baruSPT.Caption = "&Simpan"
```

```
    btn_batalSPT.Enabled = True
```

```
    btn_cariSPT.Enabled = False
```

```
    btn_editSPT.Enabled = False
```

```
    Enable_trueIsiSPT
```

```
    KosongkanTextSPT
```

```
Else
```

```
    'mencegah data kosong sebelum disimpan
```

```
    If Combo3 = "" Or Text14 = "" Or Text15 = "" Then
```

```
        MsgBox "Data Belum Lengkap...!"
```

```
    Else
```

```
        Text14 = CDec(Text14) + CDec(Text15)
```

```
        Call TambahDataSPT
```

```
        Text14 = CDec(Text14) - CDec(Text15)
```

```
        btn_baruSPT.Caption = "Data Baru"
```

```
        Enable_falseIsiSPT
```

```
        btn_batalSPT.Enabled = False
```

```
        btn_cariSPT.Enabled = True
```

```
    End If
```



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End If

kolomSPT

tampilanSPT

End Sub

Private Sub btn_batalCPT_Click()

KosongkanTextCPT

Enable_falseIsiCPT

btn_baruCPT.Caption = "Data Baru"

btn_editCPT.Caption = "Edit Data"

btn_cariCPT.Enabled = True

DataGrid1.AllowUpdate = False

DataGrid2.AllowUpdate = False

btn_hapusCPT.Enabled = False

btn_baruCPT.Enabled = False

KondisiawalCPT

btn_batalCPT.Enabled = False

End Sub

Private Sub btn_batalSPT_Click()

KosongkanTextSPT

Enable_falseIsiSPT

btn_baruSPT.Caption = "Data Baru"

btn_editSPT.Caption = "Edit Data"

btn_cariSPT.Enabled = True

DataGrid1.AllowUpdate = False

DataGrid2.AllowUpdate = False

btn_hapusSPT.Enabled = False

btn_baruSPT.Enabled = False

KondisiawalSPT

btn_batalCPT.Enabled = False

End Sub



Tugas Akhir

*"Aplikasi Program Microsoft Visual Basic 6
dalam Menganalisis Daya Dukung Pondasi Tiang Pancang"*

```
Private Sub btn_cariCPT_Click()  
If btn_cariCPT.Caption = "CARI" Then  
    btn_cariCPT.Caption = "OK"  
    Text7.Text = ""  
    btn_baruCPT.Enabled = False  
    btn_editCPT.Enabled = False  
    Text7.Enabled = True  
    Text7.SetFocus  
ElseIf Text7.Text = "" Then  
    MsgBox "Anda Harus Mengisi Kode Titik.", vbInformation, "Cari"  
    Text7.SetFocus  
Else  
    kolomCPT  
    Call tampilanCPT  
    With rs  
        If .EOF And .BOF Then  
            MsgBox "Data CPT tidak ditemukan", vbOKOnly  
            rs.Requery 'refresh data  
            Text7.Text = "Cari ID Titik CPT"  
        End If  
    End With  
    Text7.Enabled = False  
    btn_baruCPT.Enabled = True  
    btn_editCPT.Enabled = True  
    btn_cariCPT.Caption = "CARI"  
End If  
End Sub
```

```
Private Sub btn_cariSPT_Click()  
If btn_cariSPT.Caption = "CARI" Then  
    btn_cariSPT.Caption = "OK"  
    Text8.Text = ""
```



Tugas Akhir

*"Aplikasi Program Microsoft Visual Basic 6
dalam Menganalisis Daya Dukung Pondasi Tiang Pancang"*

```
btn_baruSPT.Enabled = False
btn_editSPT.Enabled = False
Text8.Enabled = True
Text8.SetFocus
ElseIf Text8.Text = "" Then
MsgBox "Anda Harus Mengisi Kode Titik.", vbInformation, "Cari"
Text8.SetFocus
Else
kolomSPT
Call tampilanSPT
With rs
    If .EOF And .BOF Then
        MsgBox "Data SPT tidak ditemukan", vbOKOnly
        rs.Requery 'refresh data
        Text8.Text = "Cari ID Titik SPT"
    End If
End With
Text8.Enabled = False
btn_baruSPT.Enabled = True
btn_editSPT.Enabled = True
btn_cariSPT.Caption = "CARI"
End If
End Sub
```

```
Private Sub btn_editCPT_Click()
    'mencegah data kosong sebelum disimpan
    If Text7 = "" Then
        MsgBox "Data Belum Lengkap...!"
        btn_editCPT.Caption = "Edit Data"
    End If
    If btn_editCPT.Caption = "Edit Data" Then
        btn_editCPT.Caption = "Simpan"
    End If
End Sub
```




Tugas Akhir

*"Aplikasi Program Microsoft Visual Basic 6
dalam Menganalisis Daya Dukung Pondasi Tiang Pancang"*

```
DataGrid1.AllowUpdate = True
```

```
btn_hapusCPT.Enabled = True
```

```
Else
```

```
    On Error Resume Next
```

```
    Adodc1.Recordset.Update
```

```
    Adodc1.Recordset.Update
```

```
    'Adodc2.Recordset.Update
```

```
    btn_hapusCPT.Enabled = False
```

```
    DataGrid1.AllowUpdate = False
```

```
    btn_editCPT.Caption = "Edit Data"
```

```
    MsgBox "Data telah diperbaharui", vbInformation, "Data CPT"
```

```
End If
```

```
End Sub
```

```
Private Sub btn_editSPT_Click()
```

```
    'mencegah data kosong sebelum disimpan
```

```
    If Text8 = "" Then
```

```
        MsgBox "Data Belum Lengkap...!"
```

```
        btn_editSPT.Caption = "Edit Data"
```

```
    End If
```

```
If btn_editSPT.Caption = "Edit Data" Then
```

```
    btn_editSPT.Caption = "Simpan"
```

```
    DataGrid2.AllowUpdate = True
```

```
    btn_hapusSPT.Enabled = True
```

```
Else
```

```
    On Error Resume Next
```

```
    AdodcSPT.Recordset.Update
```

```
    AdodcSPT.Recordset.Update
```

```
    'Adodc2.Recordset.Update
```

```
    btn_hapusSPT.Enabled = False
```

```
    DataGrid2.AllowUpdate = False
```

```
    btn_editSPT.Caption = "Edit Data"
```



Tugas Akhir

*"Aplikasi Program Microsoft Visual Basic 6
dalam Menganalisis Daya Dukung Pondasi Tiang Pancang"*

```
MsgBox "Data telah diperbaharui", vbInformation, "Data SPT"
End If
End Sub

Private Sub btn_hapusCPT_Click()
Dim sql1, sql2 As String
Dim pesan As Integer
pesan = MsgBox("Anda yakin menghapus data tersebut?", vbInformation + vbYesNo,
"Hapus Data !")
If pesan = vbYes Then
On Error Resume Next
sql1 = "DELETE FROM tabel_cpt WHERE id_titik =" & Combo2.Text & " AND
id_proyek =" & Text6.Text & " "
db.Execute (sql1)
sql2 = "DELETE FROM tabel_pondasi WHERE id_titik =" & Combo2.Text & " AND
id_proyek =" & Text6.Text & " "
db.Execute (sql2)

'Adodc2.Recordset.Delete
Text9.Text = ""
Text11.Text = ""
Text12.Text = ""
End If

On Error Resume Next
Adodc1.Recordset.Update
Adodc2.Recordset.Update
btn_hapusCPT.Enabled = False
DataGrid1.AllowUpdate = False
btn_editCPT.Caption = "Edit Data"

Call tampilanCPT
Call kolomCPT
End Sub
```



Tugas Akhir

*"Aplikasi Program Microsoft Visual Basic 6
dalam Menganalisis Daya Dukung Pondasi Tiang Pancang"*

```
Private Sub btn_hapusSPT_Click()  
Dim sql1, sql2 As String  
Dim pesan As Integer  
pesan = MsgBox("Anda yakin menghapus data tersebut?", vbInformation + vbYesNo,  
"Hapus Data !")  
If pesan = vbYes Then  
On Error Resume Next  
sql1 = "DELETE FROM tabel_spt WHERE id_titik =" & Combo3.Text & " AND  
id_proyek =" & Text6.Text & " "  
db.Execute (sql1)  
sql2 = "DELETE FROM tabel_pondasi WHERE id_titik =" & Combo3.Text & " AND  
id_proyek =" & Text6.Text & " "  
db.Execute (sql2)  
  
'AdodcSPT.Recordset.Delete  
Text14.Text = ""  
Text15.Text = ""  
Text16.Text = ""  
Text17.Text = ""  
End If  
Call tampilanSPT  
Call kolomSPT  
End Sub
```

```
Private Sub btn_inputCPT_Click()  
Form1.Enabled = False  
FormUjiCPT.Show  
End Sub
```

```
Private Sub btn_inputSPT_Click()  
Form1.Enabled = False  
FormUjiSPT.Show
```



Tugas Akhir

*"Aplikasi Program Microsoft Visual Basic 6
dalam Menganalisis Daya Dukung Pondasi Tiang Pancang"*

End Sub

Private Sub btn_projek_Click()

Unload Me

Form2.Show

End Sub

Private Sub Combo1_Click()

Set rs = New Recordset

rs.Open "select * from tabel_projek where id_proyek=" & Left(Combo1.Text, 5) & " ",
db, adOpenDynamic, adLockOptimistic

rs.Requery

With rs

If .EOF And .BOF Then

MsgBox "ID tidak ditemukan", vbOKOnly

Exit Sub

Else

Text1.Text = rs.Fields("nama_projek")

Text2.Text = rs.Fields("test_oleh")

Text3.Text = rs.Fields("test_tanggal")

Text4.Text = rs.Fields("lokasi_projek")

Text5.Text = rs.Fields("Keterangan")

Text6.Text = rs.Fields("id_proyek")

End If

End With

rs.Close

Text7.Text = "Cari ID Titik CPT"

Text8.Text = "Cari ID Titik SPT"

Call kolomCPT



Tugas Akhir

*"Aplikasi Program Microsoft Visual Basic 6
dalam Menganalisis Daya Dukung Pondasi Tiang Pancang"*

```
'Call tampilanCPT
Call kolomSPT
'Call tampilanSPT
btn_baruCPT.Enabled = True
btn_baruSPT.Enabled = True
End Sub
Private Sub Combo2_Click()
Call koneksi
Set rsCPT = New Recordset
rsCPT.CursorLocation = adUseClient
rsCPT.Open "Select id_titik, Kedalaman, Conus, ConusCleeve, FR, ket_tanah from
tabel_cpt where id_titik like '%" & Combo2 & "%' AND id_proyek like '%" & Text6 &
"%' ", db, adOpenDynamic, adLockOptimistic
If Not rsCPT.EOF Then
    With rsCPT
        With DataGrid1
            Set .DataSource = rsCPT
            .Refresh
        End With
    End With
End If
    With rsCPT
        If .EOF And .BOF Then
            MsgBox "Data CPT tidak ditemukan", vbOKOnly
            rsCPT.Requery 'refresh data
        End If
    End With

btn_editCPT.Enabled = True
End Sub
Private Sub Combo3_Click()
Call koneksi
```



Tugas Akhir

*"Aplikasi Program Microsoft Visual Basic 6
dalam Menganalisis Daya Dukung Pondasi Tiang Pancang"*

```
Set rsSPT = New Recordset
```

```
rsSPT.CursorLocation = adUseClient
```

```
rsSPT.Open "SELECT id_titik, Kedalaman, N1, N2, N3, N, ket_tanah from tabel_spt  
where id_titik like '%" & Combo3 & "%' AND id_proyek like '%" & Text6 & "%' ", db,  
adOpenDynamic, adLockOptimistic
```

```
If Not rsSPT.EOF Then
```

```
    With rsSPT
```

```
        With DataGrid2
```

```
            Set .DataSource = rsSPT
```

```
            .Refresh
```

```
        End With
```

```
    End With
```

```
End If
```

```
    With rsSPT
```

```
        If .EOF And .BOF Then
```

```
            MsgBox "Data SPT tidak ditemukan", vbOKOnly
```

```
            rsSPT.Requery 'refresh data
```

```
        End If
```

```
    End With
```

```
btn_editSPT.Enabled = True
```

```
End Sub
```

```
Private Sub Form_Load()
```

```
Text10.Text = "0.2"
```

```
Text13.Text = "0"
```

```
Text19.Text = "0"
```

```
Text9.Text = ""
```

```
Text14.Text = ""
```

```
Text15.Text = ""
```

```
Combo2.AddItem "CPT01"
```



Tugas Akhir

*"Aplikasi Program Microsoft Visual Basic 6
dalam Menganalisis Daya Dukung Pondasi Tiang Pancang"*

```
Combo2.AddItem "CPT02"  
Combo2.AddItem "CPT03"  
Combo2.AddItem "CPT04"  
Combo2.AddItem "CPT05"  
Combo2.AddItem "CPT06"  
Combo2.AddItem "CPT07"  
Combo2.AddItem "CPT08"  
Combo2.AddItem "CPT09"  
Combo2.AddItem "CPT10"  
Combo3.AddItem "SPT01"  
Combo3.AddItem "SPT02"  
Combo3.AddItem "SPT03"  
Combo3.AddItem "SPT04"  
Combo3.AddItem "SPT05"  
Combo3.AddItem "SPT06"  
Combo3.AddItem "SPT07"  
Combo3.AddItem "SPT08"  
Combo3.AddItem "SPT09"  
Combo3.AddItem "SPT10"
```

Call koneksi

Combo1.Clear

Set rs = New Recordset

```
rs.Open "SELECT * FROM tabel_projek", db, adOpenDynamic, adLockOptimistic
```

Do Until rs.EOF

```
Combo1.AddItem rs!id_projek & Space(5) & rs!nama_projek
```

```
rs.MoveNext
```

Loop

```
rs.Close
```



Tugas Akhir

*"Aplikasi Program Microsoft Visual Basic 6
dalam Menganalisis Daya Dukung Pondasi Tiang Pancang"*

'=====

=====

Call koneksi

Call tampilanCPT

Call kolomCPT

Call tampilanSPT

Call kolomSPT

'=====

=====

Adodc1.Visible = False

Adodc2.Visible = False

AdodcSPT.Visible = False

End Sub

Private Sub Text7_Change()

Call koneksi

Set rsCPT = New Recordset

rsCPT.CursorLocation = adUseClient

rsCPT.Open "Select id_titik, Kedalaman, Conus, ConusCleeve, FR, ket_tanah from
tabel_cpt where id_titik like '%" & Text7 & "%' AND id_proyek like '%" & Text6 & "%'",
db

If Not rsCPT.EOF Then

With rsCPT

With DataGrid1

Set .DataSource = rsCPT

.Refresh

End With

End With

End If

End Sub

Private Sub Text8_Change()

Call koneksi



Tugas Akhir

*"Aplikasi Program Microsoft Visual Basic 6
dalam Menganalisis Daya Dukung Pondasi Tiang Pancang"*

Set rsSPT = New Recordset

rsSPT.CursorLocation = adUseClient

rsSPT.Open "SELECT id_titik, Kedalaman, N1, N2, N3, N, ket_tanah from tabel_spt
where id_titik like '%" & Text8 & "%' AND id_proyek like '%" & Text6 & "%'", db

If Not rsSPT.EOF Then

 With rsSPT

 With DataGrid2

 Set .DataSource = rsSPT

 .Refresh

 End With

 End With

End If

End Sub





Tugas Akhir

"Aplikasi Program Microsoft Visual Basic 6
dalam Menganalisis Daya Dukung Pondasi Tiang Pancang"

Kode List Program CPT

Dim db As ADODB.Connection

Dim rs As ADODB.Recordset

Dim SkalaX, SkalaY As Integer

Sub koneksi()

Set db = New ADODB.Connection

db.CursorLocation = adUseClient

db.Open "proyek_ta"

End Sub

Private Sub TampilLapisanTanah()

pasir1.Visible = False

lempung1.Visible = False

pasir2.Visible = False

lempung2.Visible = False

pasir3.Visible = False

lempung3.Visible = False

pasir4.Visible = False

lempung4.Visible = False

pasir5.Visible = False

lempung5.Visible = False

pasir6.Visible = False

lempung6.Visible = False

pasir7.Visible = False

lempung7.Visible = False

pasir8.Visible = False

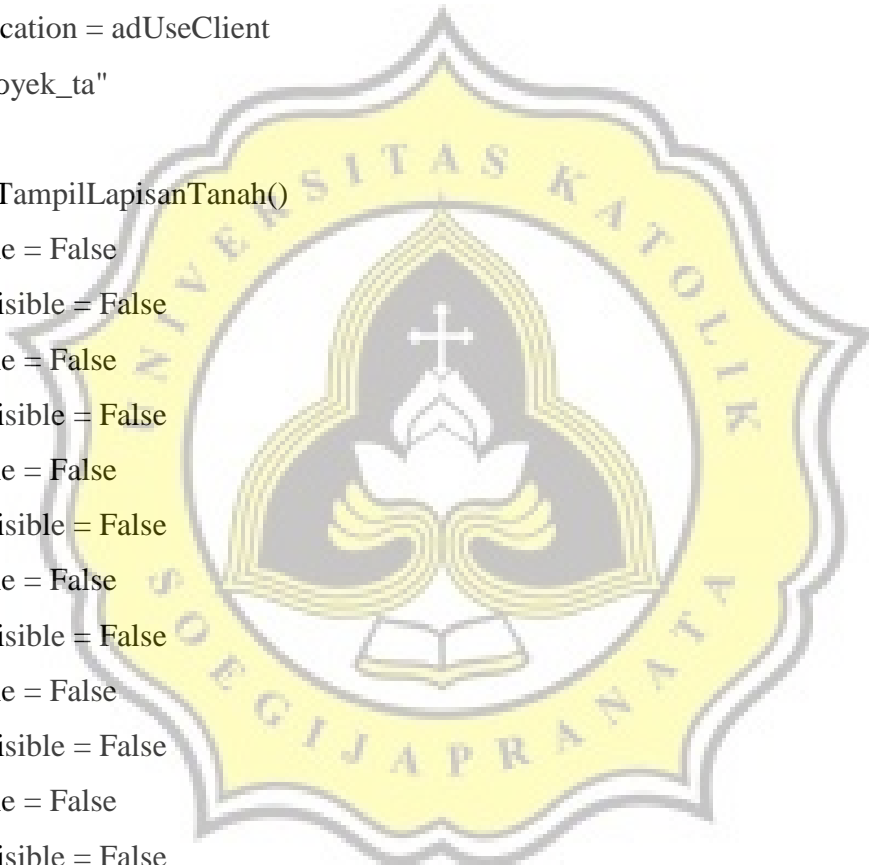
lempung8.Visible = False

pasir9.Visible = False

lempung9.Visible = False

pasir10.Visible = False

lempung10.Visible = False





Tugas Akhir

*“Aplikasi Program Microsoft Visual Basic 6
dalam Menganalisis Daya Dukung Pondasi Tiang Pancang”*

pasir11.Visible = False

lempung11.Visible = False

pasir12.Visible = False

lempung12.Visible = False

pasir13.Visible = False

lempung13.Visible = False

pasir14.Visible = False

lempung14.Visible = False

pasir15.Visible = False

lempung15.Visible = False

pasir16.Visible = False

lempung16.Visible = False

pasir17.Visible = False

lempung17.Visible = False

pasir18.Visible = False

lempung18.Visible = False

pasir19.Visible = False

lempung19.Visible = False

pasir20.Visible = False

lempung20.Visible = False

pasir21.Visible = False

lempung21.Visible = False

pasir22.Visible = False

lempung22.Visible = False

pasir23.Visible = False

lempung23.Visible = False

pasir24.Visible = False

lempung24.Visible = False

pasir25.Visible = False

lempung25.Visible = False

pasir26.Visible = False

lempung26.Visible = False





Tugas Akhir

*“Aplikasi Program Microsoft Visual Basic 6
dalam Menganalisis Daya Dukung Pondasi Tiang Pancang”*

pasir27.Visible = False

lempung27.Visible = False

pasir28.Visible = False

lempung28.Visible = False

pasir29.Visible = False

lempung29.Visible = False

pasir30.Visible = False

lempung30.Visible = False

End Sub

Private Sub btn_cekLapisan_Click()

Call JenisLapisanTanah

End Sub

Private Sub btn_kembali_Click()

Form1.Enabled = True

Unload Me

End Sub

Private Sub btn_lihat_Click()

FormUjiCPT.Enabled = False

LihatDataCPT.Show

End Sub

Private Sub btn_print_Click()

Dim sql As String

FrmPrintCPT.Show

FrmPrintCPT.CurrentX = 2200

FrmPrintCPT.CurrentY = 400

FrmPrintCPT.FontSize = FormUjiCPT.FontSize

FrmPrintCPT.Print FormUjiCPT.Caption

FrmPrintCPT.CurrentX = 1000



Tugas Akhir

*"Aplikasi Program Microsoft Visual Basic 6
dalam Menganalisis Daya Dukung Pondasi Tiang Pancang"*

```
FrmPrintCPT.Print "-----  
-----"  
FrmPrintCPT.CurrentX = 2200  
FrmPrintCPT.FontSize = 14  
FrmPrintCPT.Print Text10.Text  
FrmPrintCPT.Print ""  
FrmPrintCPT.FontName = "arial"  
FrmPrintCPT.FontSize = 10  
FrmPrintCPT.CurrentX = 1000  
FrmPrintCPT.Print "Identitas titik (CPT)" & vbTab & vbTab & ":" & vbTab & Text1.Text  
FrmPrintCPT.FontName = "arial"  
FrmPrintCPT.FontSize = 10  
FrmPrintCPT.CurrentX = 1000  
FrmPrintCPT.Print "ID Proyek" & vbTab & vbTab & vbTab & ":" & vbTab &  
FormUjiCPT.Text3.Text & ""  
FrmPrintCPT.FontName = "arial"  
FrmPrintCPT.FontSize = 10  
FrmPrintCPT.CurrentX = 1000  
FrmPrintCPT.Print "Kedalaman pondasi (Df)" & vbTab & ":" & vbTab & Text2.Text & "  
(m)"  
FrmPrintCPT.FontName = "arial"  
FrmPrintCPT.FontSize = 10  
FrmPrintCPT.CurrentX = 1000  
FrmPrintCPT.Print "Lebar / sisi pondasi" & vbTab & vbTab & ":" & vbTab & Text4.Text  
& " (m)"  
FrmPrintCPT.FontName = "arial"  
FrmPrintCPT.FontSize = 10  
FrmPrintCPT.CurrentX = 1000  
FrmPrintCPT.Print "Daya Dukung (qa)" & vbTab & vbTab & ":" & vbTab & Text8.Text  
& " (kg/cm2)"  
FrmPrintCPT.Print ""  
FrmPrintCPT.CurrentX = 1600
```



Tugas Akhir

"Aplikasi Program Microsoft Visual Basic 6
dalam Menganalisis Daya Dukung Pondasi Tiang Pancang"

```
FrmPrintCPT.Print "Kedalaman (m)" & vbTab & "Conus (kg/cm2)"
,
Set rs = New ADODB.Recordset
sql = "SELECT Kedalaman, Conus FROM tabel_cpt WHERE id_titik =" & Text1.Text &
" AND id_proyek =" & Text3.Text & ""
rs.Open (sql), db, adOpenDynamic, adLockOptimistic
Do Until rs.EOF
    Debug.Print rs.Fields("Conus").Value
    X1 = rs.Fields("Kedalaman").Value
    Y1 = rs.Fields("Conus").Value
    rs.MoveNext
,
FrmPrintCPT.CurrentX = 2200
FrmPrintCPT.Print X1 & vbTab & vbTab & vbTab & Y1
Loop
FrmPrintCPT.CurrentX = 1000
FrmPrintCPT.Print "-----"
FrmPrintCPT.CurrentX = 1200
FrmPrintCPT.FontName = "Comic Sans MS"
FrmPrintCPT.FontSize = 10
FrmPrintCPT.Print "printed at : " & Date
End Sub
Private Sub btn_analisa_Click()
Dim sql As String
Dim B, df, alas, sfQu, sfQs As Single
Dim qa As Single
Dim az1, az2 As Currency
Call koneksi
On Error GoTo eror
B = Text4.Text
df = Text2.Text
az1 = df - (8 * B)
```



Tugas Akhir

*"Aplikasi Program Microsoft Visual Basic 6
dalam Menganalisis Daya Dukung Pondasi Tiang Pancang"*

```
az2 = df + (4 * B)
```

```
If Text4.Text = "" Then
```

```
MsgBox "Lebar (B) tidak boleh kosong", vbExclamation, "Kesalahan"
```

```
Else
```

```
Text5.Text = az1
```

```
Combo3.Text = az2
```

```
'CDec(Text5.Text) = az1
```

```
'CDec(Combo3.Text) = az2
```

```
Set rs = New Recordset
```

```
sql = "SELECT AVG(Conus) FROM tabel_cpt WHERE id_titik =" & Text1.Text & ""  
AND id_proyek =" & Text3.Text & "" AND Kedalaman >=" & CDec(Text5.Text) & ""  
AND Kedalaman <=" & CDec(Combo3.Text) & "" "
```

```
Set rs = db.Execute(sql)
```

```
Text7.Text = rs.Fields("AVG(Conus)")
```

```
qc = Text7.Text
```

```
B = Text4.Text
```

```
df = Text2.Text
```

```
alas = Text6.Text
```

```
sfQu = Combo1.Text
```

```
sfQs = Combo2.Text
```

```
'=====mencari qf kohesif lapisan 1====='
```

```
sqlR1 = "SELECT AVG(Conus) FROM tabel_cpt WHERE id_titik =" & Text1.Text & ""  
AND id_proyek =" & Text3.Text & "" AND Kedalaman >" & Text9 & "" AND  
Kedalaman <=" & Text11 & "" "
```

```
Set rs = db.Execute(sqlR1)
```

```
rtR1 = rs.Fields("AVG(Conus)")
```

```
sqlR2 = "SELECT AVG(ConusCleeve) FROM tabel_cpt WHERE id_titik =" &  
Text1.Text & "" AND id_proyek =" & Text3.Text & "" AND Kedalaman >" & Text9 & ""  
AND Kedalaman <=" & Text11 & "" "
```



Tugas Akhir

*"Aplikasi Program Microsoft Visual Basic 6
dalam Menganalisis Daya Dukung Pondasi Tiang Pancang"*

```
Set rs = db.Execute(sqlR2)
```

```
rtR2 = rs.Fields("AVG(ConusCleeve)")
```

```
qf1 = (rtR2 - rtR1)
```

```
'=====mencari qf kohesif lapisan 1====='
```

```
'=====mencari qc kohesif lapisan 2====='
```

```
sqlR1Lap2 = "SELECT AVG(Conus) FROM tabel_cpt WHERE id_titik =" & Text1.Text  
& " AND id_proyek =" & Text3.Text & " AND Kedalaman >" & Text12 & " AND  
Kedalaman <=" & Text13 & " "
```

```
Set rs = db.Execute(sqlR1Lap2)
```

```
rtR1Lap2 = rs.Fields("AVG(Conus)")
```

```
sqlR2Lap2 = "SELECT AVG(ConusCleeve) FROM tabel_cpt WHERE id_titik =" &  
Text1.Text & " AND id_proyek =" & Text3.Text & " AND Kedalaman >" & Text12 & "  
AND Kedalaman <=" & Text13 & " "
```

```
Set rs = db.Execute(sqlR2Lap2)
```

```
rtR2Lap2 = rs.Fields("AVG(ConusCleeve)")
```

```
qf2 = (rtR2Lap2 - rtR1Lap2)
```

```
'=====mencari qc kohesif lapisan 2====='
```

```
'=====mencari qc kohesif lapisan 3====='
```

```
sqlR1Lap3 = "SELECT AVG(Conus) FROM tabel_cpt WHERE id_titik =" & Text1.Text  
& " AND id_proyek =" & Text3.Text & " AND Kedalaman >" & Text21 & " AND  
Kedalaman <=" & Text22 & " "
```

```
Set rs = db.Execute(sqlR1Lap3)
```

```
rtR1Lap3 = rs.Fields("AVG(Conus)")
```

```
sqlR2Lap3 = "SELECT AVG(ConusCleeve) FROM tabel_cpt WHERE id_titik =" &  
Text1.Text & " AND id_proyek =" & Text3.Text & " AND Kedalaman >" & Text21 & "  
AND Kedalaman <=" & Text22 & " "
```

```
Set rs = db.Execute(sqlR2Lap3)
```

```
rtR2Lap3 = rs.Fields("AVG(ConusCleeve)")
```

```
qf3 = (rtR2Lap3 - rtR1Lap3)
```

```
'=====mencari qc kohesif lapisan 3====='
```




Tugas Akhir

*"Aplikasi Program Microsoft Visual Basic 6
dalam Menganalisis Daya Dukung Pondasi Tiang Pancang"*

'=====mencari qc kohesif lapisan 4====='

```
sqlR1Lap4 = "SELECT AVG(Conus) FROM tabel_cpt WHERE id_titik =" & Text1.Text & ""  
& "" AND id_proyek =" & Text3.Text & "" AND Kedalaman >" & Text23 & "" AND  
Kedalaman <=" & Text24 & "" "
```

```
Set rs = db.Execute(sqlR1Lap4)
```

```
rtR1Lap4 = rs.Fields("AVG(Conus)")
```

```
sqlR2Lap4 = "SELECT AVG(ConusCleeve) FROM tabel_cpt WHERE id_titik =" & Text1.Text & ""  
& "" AND id_proyek =" & Text3.Text & "" AND Kedalaman >" & Text23 & ""  
AND Kedalaman <=" & Text24 & "" "
```

```
Set rs = db.Execute(sqlR2Lap4)
```

```
rtR2Lap4 = rs.Fields("AVG(ConusCleeve)")
```

```
qf4 = (rtR2Lap4 - rtR1Lap4)
```

'=====mencari qc kohesif lapisan 4====='

```
sqlqc1 = "SELECT AVG(Conus) FROM tabel_cpt WHERE id_titik =" & Text1.Text & ""  
AND id_proyek =" & Text3.Text & "" AND Kedalaman >" & Text9 & "" AND  
Kedalaman <=" & Text11 & "" "
```

```
Set rs = db.Execute(sqlqc1)
```

```
qclap1 = rs.Fields("AVG(Conus)")
```

```
Text17.Text = qclap1
```

```
sqlqc2 = "SELECT AVG(Conus) FROM tabel_cpt WHERE id_titik =" & Text1.Text & ""  
AND id_proyek =" & Text3.Text & "" AND Kedalaman >=" & Text12 & "" AND  
Kedalaman <=" & Text13 & "" "
```

```
Set rs = db.Execute(sqlqc2)
```

```
qclap2 = rs.Fields("AVG(Conus)")
```

```
Text18.Text = qclap2
```

```
sqlqc3 = "SELECT AVG(Conus) FROM tabel_cpt WHERE id_titik =" & Text1.Text & ""  
AND id_proyek =" & Text3.Text & "" AND Kedalaman >=" & Text21 & "" AND  
Kedalaman <=" & Text22 & "" "
```

```
Set rs = db.Execute(sqlqc3)
```

```
qclap3 = rs.Fields("AVG(Conus)")
```



Tugas Akhir

*"Aplikasi Program Microsoft Visual Basic 6
dalam Menganalisis Daya Dukung Pondasi Tiang Pancang"*

```
sqlqc4 = "SELECT AVG(Conus) FROM tabel_cpt WHERE id_titik ='" & Text1.Text & "'  
AND id_proyek ='" & Text3.Text & "' AND Kedalaman >='" & Text23 & "' AND  
Kedalaman <='" & Text24 & "' "
```

```
Set rs = db.Execute(sqlqc4)
```

```
qclap4 = rs.Fields("AVG(Conus)")
```

```
'pondasi bentuk segitiga
```

```
ap1 = (alas ^ 2) / 4 * Math.Sqrt(3)
```

```
qu1 = (ap1 * qc) * 10000
```

```
as1 = (3 * B) * 10000
```

```
If CLapisan1.Value = Checked Then
```

```
fs11 = qf1 / 10
```

```
ElseIf CLapisan1.Value = Unchecked Then
```

```
fs11 = qclap1 / 200
```

```
End If
```

```
If CLapisan2.Value = Checked Then
```

```
fs12 = qf2 / 10
```

```
ElseIf CLapisan2.Value = Unchecked Then
```

```
fs12 = qclap2 / 200
```

```
End If
```

```
If CLapisan3.Value = Checked Then
```

```
fs13 = qf3 / 10
```

```
ElseIf CLapisan3.Value = Unchecked Then
```

```
fs13 = qclap3 / 200
```

```
End If
```

```
If CLapisan4.Value = Checked Then
```

```
fs14 = qf4 / 10
```

```
ElseIf CLapisan4.Value = Unchecked Then
```

```
fs14 = qclap4 / 200
```

```
End If
```

```
lapisan1 = CDec(Text11.Text) - CDec(Text9.Text)
```

```
lapisan2 = CDec(Text13.Text) - CDec(Text12.Text)
```



Tugas Akhir

*“Aplikasi Program Microsoft Visual Basic 6
dalam Menganalisis Daya Dukung Pondasi Tiang Pancang”*

lapisan3 = CDec(Text22.Text) - CDec(Text21.Text)

lapisan4 = CDec(Text24.Text) - CDec(Text23.Text)

fs1 = ((fs11 * lapisan1) + (fs12 * lapisan2) + (fs13 * lapisan3) + (fs14 * lapisan4))

qs1 = as1 * fs1

qa1 = (qu1 / sfQu) + (qs1 / sfQs)

Pondasi bentuk kotak

ap2 = B ^ 2

qu2 = (ap2 * qc) * 10000

as2 = (4 * B) * 10000

If CLapisan1.Value = Checked Then

fs21 = qf1 / 10

ElseIf CLapisan1.Value = Unchecked Then

fs21 = qclap1 / 200

End If

If CLapisan2.Value = Checked Then

fs22 = qf2 / 10

ElseIf CLapisan2.Value = Unchecked Then

fs22 = qclap2 / 200

End If

If CLapisan3.Value = Checked Then

fs23 = qf3 / 10

ElseIf CLapisan3.Value = Unchecked Then

fs23 = qclap3 / 200

End If

If CLapisan4.Value = Checked Then

fs24 = qf4 / 10

ElseIf CLapisan4.Value = Unchecked Then

fs24 = qclap4 / 200

End If

lapisan21 = CDec(Text11.Text) - CDec(Text9.Text)

lapisan22 = CDec(Text13.Text) - CDec(Text12.Text)



Tugas Akhir

*“Aplikasi Program Microsoft Visual Basic 6
dalam Menganalisis Daya Dukung Pondasi Tiang Pancang”*

lapisan23 = CDec(Text22.Text) - CDec(Text21.Text)

lapisan24 = CDec(Text24.Text) - CDec(Text23.Text)

fs2 = ((fs21 * lapisan21) + (fs22 * lapisan22) + (fs23 * lapisan23) + (fs24 * lapisan24))

qs2 = as2 * fs2

qa2 = (qu2 / sfQu) + (qs2 / sfQs)

Pondasi bentuk Lingkaran

ap3 = 0.25 * (22 / 7) * (B ^ 2)

qu3 = (ap3 * qc) * 10000

as3 = ((22 / 7) * B) * 10000

If CLapisan1.Value = Checked Then

fs31 = qf1 / 10

ElseIf CLapisan1.Value = Unchecked Then

fs31 = qclap1 / 200

End If

If CLapisan2.Value = Checked Then

fs32 = qf2 / 10

ElseIf CLapisan2.Value = Unchecked Then

fs32 = qclap2 / 200

End If

If CLapisan3.Value = Checked Then

fs33 = qf3 / 10

ElseIf CLapisan3.Value = Unchecked Then

fs33 = qclap3 / 200

End If

If CLapisan4.Value = Checked Then

fs34 = qf4 / 10

ElseIf CLapisan4.Value = Unchecked Then

fs34 = qclap4 / 200

End If

lapisan31 = CDec(Text11.Text) - CDec(Text9.Text)

lapisan32 = CDec(Text13.Text) - CDec(Text12.Text)



Tugas Akhir

*"Aplikasi Program Microsoft Visual Basic 6
dalam Menganalisis Daya Dukung Pondasi Tiang Pancang"*

lapisan33 = CDec(Text22.Text) - CDec(Text21.Text)

lapisan34 = CDec(Text24.Text) - CDec(Text23.Text)

fs3 = ((fs31 * lapisan31) + (fs32 * lapisan32) + (fs33 * lapisan33) + (fs34 * lapisan34))

qs3 = as3 * fs3

qa3 = (qu1 / sfQu) + (qs3 / sfQs)

If Option1.Value = True Then

Text8.Text = qa1 / 1000

Text14.Text = fs11

Text20.Text = fs12

Text25.Text = fs13

Text26.Text = fs14

Text15.Text = qs1

Text16.Text = qu1

ElseIf Option2.Value = True Then

Text8.Text = qa2 / 1000

Text14.Text = fs21

Text20.Text = fs22

Text25.Text = fs23

Text26.Text = fs24

Text15.Text = qs2

Text16.Text = qu2

ElseIf Option3.Value = True Then

Text8.Text = qa3 / 1000

Text14.Text = fs31

Text20.Text = fs32

Text25.Text = fs33

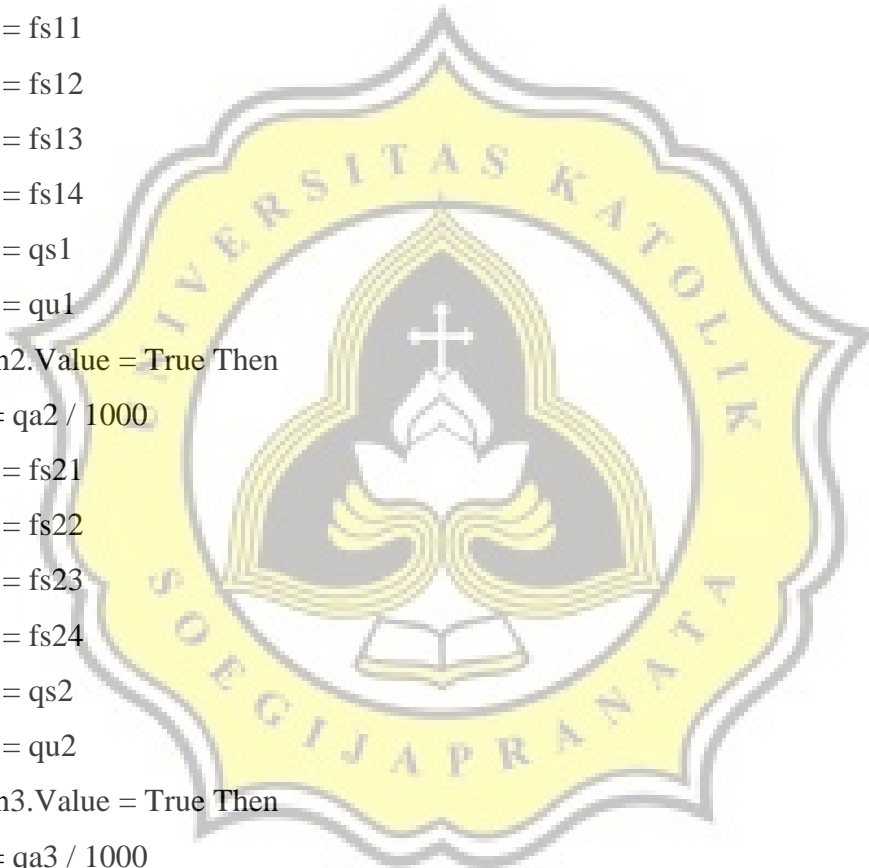
Text26.Text = fs34

Text15.Text = qs3

Text16.Text = qu3

End If

End If





Tugas Akhir

*"Aplikasi Program Microsoft Visual Basic 6
dalam Menganalisis Daya Dukung Pondasi Tiang Pancang"*

```
If Check_lap2.Value = Unchecked Then
```

```
Text20.Text = 0
```

```
End If
```

```
Exit Sub
```

```
eror:
```

```
MsgBox "Ada kesalahan dalam pengisian data, periksa kembali data anda",  
vbExclamation, "Kesalahan"
```

```
End Sub
```

```
Private Sub Command5_Click()
```

```
On Error GoTo eror
```

```
Dim sql As String
```

```
Set rs = New Recordset
```

```
sql = "SELECT AVG(Conus) FROM tabel_cpt WHERE kode_cpt = " & Combo14.Text &  
" AND Kedalaman >=" & Text2.Text & " AND Kedalaman <=" & Combo3.Text & " "
```

```
Set rs = db.Execute(sql)
```

```
Text7.Text = rs.Fields("AVG(Conus)")
```

```
Exit Sub
```

```
eror:
```

```
MsgBox Err.Description
```

```
End Sub
```

```
Private Sub tampilan()
```

```
Dim sql As String
```

```
Set rs = New ADODB.Recordset
```

```
sql = "SELECT Kedalaman, Conus, ConusCleeve, FR, ket_tanah FROM tabel_cpt  
WHERE id_titik = " & Text1.Text & " AND id_proyek = " & Text3.Text & " "
```

```
rs.Open sql, db, adOpenDynamic, adLockOptimistic
```

```
Set DataGrid1.DataSource = rs
```

```
End Sub
```



Tugas Akhir

*“Aplikasi Program Microsoft Visual Basic 6
dalam Menganalisis Daya Dukung Pondasi Tiang Pancang”*

```
Private Sub Check_lap1_Click()  
If Check_lap1.Value = Checked Then  
Text9.Visible = True  
Text11.Visible = True  
CLapisan1.Visible = True  
Else  
Text9.Visible = False  
Text11.Visible = False  
CLapisan1.Visible = False  
End If  
End Sub
```

```
Private Sub Check_lap2_Click()  
If Check_lap2.Value = Checked Then  
Text12.Visible = True  
Text13.Visible = True  
CLapisan2.Visible = True  
Else  
Text12.Visible = False  
Text13.Visible = False  
CLapisan2.Visible = False  
Text12.Text = "0"  
Text13.Text = "0"  
Text20.Text = 0  
End If  
End Sub
```

```
Private Sub Check_lap3_Click()  
If Check_lap3.Value = Checked Then  
Text21.Visible = True  
Text22.Visible = True
```



Tugas Akhir

*"Aplikasi Program Microsoft Visual Basic 6
dalam Menganalisis Daya Dukung Pondasi Tiang Pancang"*

CLapisan3.Visible = True

Else

Text21.Visible = False

Text22.Visible = False

CLapisan3.Visible = False

Text21.Text = "0"

Text22.Text = "0"

Text25.Text = 0

End If

End Sub

Private Sub Check_lap4_Click()

If Check_lap4.Value = Checked Then

Text23.Visible = True

Text24.Visible = True

CLapisan4.Visible = True

Else

Text23.Visible = False

Text24.Visible = False

CLapisan4.Visible = False

Text23.Text = "0"

Text24.Text = "0"

Text26.Text = 0

End If

End Sub

Private Sub Command6_Click()

On Error GoTo eror

pic_pondasiA.Visible = True

pic_pondasiB.Visible = True

Label13.Visible = True

Label13.Caption = "Df"



Tugas Akhir

"Aplikasi Program Microsoft Visual Basic 6
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Label25.Caption = "Muka Air Tanah"

Dim delta As Single

B = Text4.Text

delta = CDec(Text2.Text)

ab = delta * SkalaY

pondasiA = 255 + ab

pondasiB = 720 + ab

labelDf = 0 + ab

pic_pondasiA.Height = pondasiA

pic_pondasiB.Top = pondasiB

Label13.Top = labelDf

Shape3.Height = 0 + B * SkalaY

Shape3.Top = delta * SkalaY

Label25.Top = CDec(Text27.Text) * SkalaY

LineMAT1.Y1 = CDec(Text27.Text) * SkalaY

LineMAT1.Y2 = CDec(Text27.Text) * SkalaY

Pic_MAT.Top = 840 + (CDec(Text27.Text) * SkalaY)

'-----'

Picture1.Refresh

Set rs = New ADODB.Recordset

sql = "SELECT Kedalaman, Conus FROM tabel_cpt WHERE id_titik ='" & Text1.Text &
"'" AND id_proyek ='" & Text3.Text & """

rs.Open (sql), db, adOpenDynamic, adLockOptimistic

rs.MoveFirst

Do Until rs.EOF

X1 = rs.Fields("Conus").Value

Y1 = rs.Fields("Kedalaman").Value

rs.MoveNext

If rs.EOF = False Then



Tugas Akhir

*"Aplikasi Program Microsoft Visual Basic 6
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```
X2 = rs.Fields("Conus").Value
```

```
Y2 = rs.Fields("Kedalaman").Value
```

```
End If
```

```
Picture1.Line (X1 * SkalaX, Y1 * SkalaY)-(X2 * SkalaX, Y2 * SkalaY), vbRed
```

```
Loop
```

```
'=====
```

```
Exit Sub
```

```
error: MsgBox Err.Description
```

```
End Sub
```

```
Private Sub Form_Load()
```

```
Text6.Text = 1
```

```
Text2.Text = ""
```

```
Text4.Text = ""
```

```
Text9.Text = ""
```

```
Text11.Text = ""
```

```
Text12.Text = "0"
```

```
Text13.Text = "0"
```

```
Text7.Text = ""
```

```
Text14.Text = ""
```

```
Text16.Text = ""
```

```
Text15.Text = ""
```

```
Text8.Text = ""
```

```
Text20.Text = ""
```

```
Text21.Text = "0"
```

```
Text22.Text = "0"
```

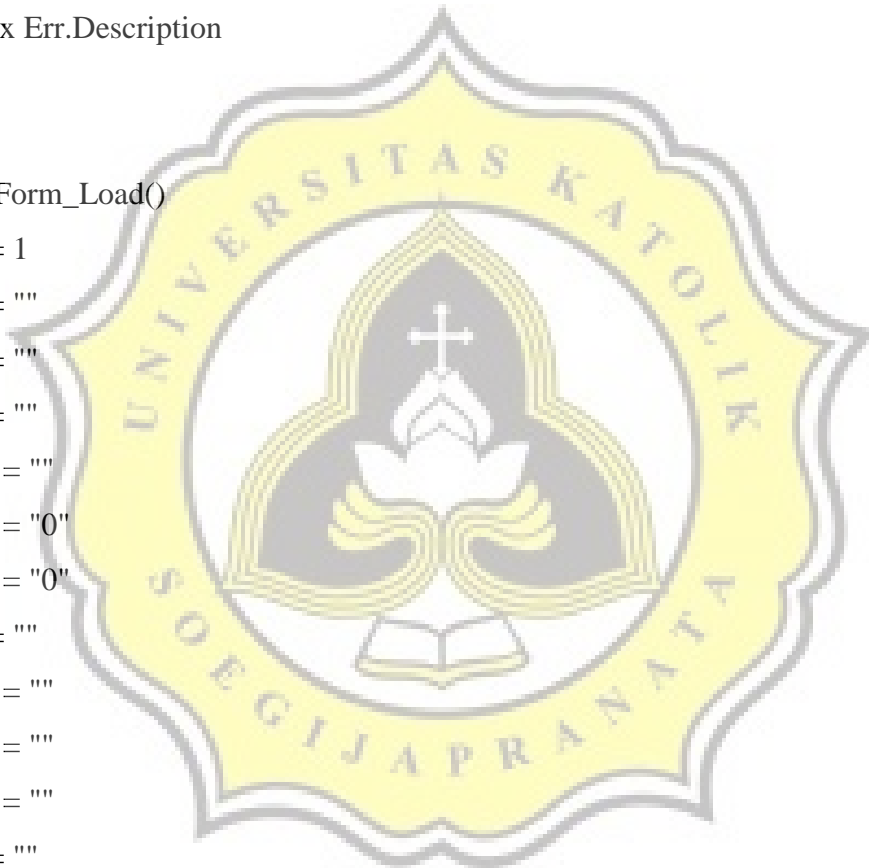
```
Text23.Text = "0"
```

```
Text24.Text = "0"
```

```
Text25.Text = ""
```

```
Text26.Text = ""
```

```
Text27.Text = "0"
```





Tugas Akhir

*"Aplikasi Program Microsoft Visual Basic 6
dalam Menganalisis Daya Dukung Pondasi Tiang Pancang"*

Combo1.AddItem "2.5"

Combo1.AddItem "3"

Combo1.AddItem "5"

Combo2.AddItem "2.5"

Combo2.AddItem "3"

Combo2.AddItem "5"

Option2.Value = True

Text1.Text = Form1.Combo2.Text

Text3.Text = Form1.Text6.Text

Text10.Text = Form1.Text1.Text

Call koneksi

Call TampilLapisanTanah

'nilai skala dalama menggambar pada VB

SkalaX = 30.3125

SkalaY = 300

'Titik acuan sumbu Y, sebagai titik nol sumbu Y

'=====

End Sub

Private Sub kelompok_tiang_Click()

FormUjiCPT.Enabled = False

FrmTiangCPT.Show

End Sub

Private Sub Option1_Click()

If Option1.Value = True Then

Label6.Visible = True



Tugas Akhir

*"Aplikasi Program Microsoft Visual Basic 6
dalam Menganalisis Daya Dukung Pondasi Tiang Pancang"*

Text6.Visible = True

Text6.Text = "0"

End If

End Sub

Private Sub Option2_Click()

Label6.Visible = False

Text6.Visible = False

Text6.Text = 1

End Sub

Private Sub Option3_Click()

Label6.Visible = False

Text6.Visible = False

End Sub

Private Sub pasir60_Click()

End Sub





Tugas Akhir

"Aplikasi Program Microsoft Visual Basic 6
dalam Menganalisis Daya Dukung Pondasi Tiang Pancang"

Kode List Program CPT

Dim db As ADODB.Connection

Dim rs As ADODB.Recordset

Dim sql As String

Dim SkalaX, SkalaY As Integer

Sub koneksi()

Set db = New ADODB.Connection

db.CursorLocation = adUseClient

db.Open "proyek_ta"

End Sub

Private Sub tampilan()

Set rs = New ADODB.Recordset

sql = "SELECT Kedalaman, N1, N2, N3, N, ket_tanah FROM tabel_spt WHERE id_titik
=" & Text1.Text & " AND id_proyek =" & Text3.Text & " "

rs.Open sql, db, adOpenDynamic, adLockOptimistic

Set DataGrid1.DataSource = rs

End Sub

Private Sub btn_analisa_Click()

Dim sql As String

Dim B, df, alas, sfQa As Single

Dim az1, az2 As Currency

Call koneksi

On Error GoTo eror

B = Text7.Text

df = Text8.Text

az1 = df - (1 * B)

az2 = df - 2

'az2 = df + (2 * B)

If Text7.Text = "" Or Text8.Text = "" Then



Tugas Akhir

"Aplikasi Program Microsoft Visual Basic 6
dalam Menganalisis Daya Dukung Pondasi Tiang Pancang"

MsgBox "Kesalahan dalam Pengisian Data", vbExclamation, "Kesalahan"

Else

Text2.Text = az1

Combo14.Text = az2

Set rs = New Recordset

sql = "SELECT AVG(N) FROM tabel_spt WHERE id_titik =" & Text1.Text & " AND
id_proyek =" & Text3.Text & " AND Kedalaman<=" & CDec(Text8.Text) & " AND
Kedalaman>=" & CDec(Combo14.Text) & " "

Set rs = db.Execute(sql)

Text5.Text = rs.Fields("AVG(N)")

Nb = Text5.Text

B = Text7.Text

df = Text8.Text

alas = Text9.Text

sfQa = Combo1.Text

sqlNrt1 = "SELECT AVG(N) FROM tabel_spt WHERE id_titik =" & Text1.Text & "
AND id_proyek =" & Text3.Text & " AND Kedalaman >" & Combo5.Text & " AND
Kedalaman <=" & Text8.Text & " "

Set rs = db.Execute(sqlNrt1)

NrtLap1 = rs.Fields("AVG(N)")

'Mencari Nilai qa, untuk bentuk segitiga

ap1 = (alas ^ 2) / 4 * Math.Sqrt(3)

qu1 = 40 * Nb * ap1

as1 = 3 * B

'If CLapisan1.Value = Checked Then

'xm11 = 0.5

'ElseIf CLapisan1.Value = Unchecked Then

'xm11 = 0.2



Tugas Akhir

*"Aplikasi Program Microsoft Visual Basic 6
dalam Menganalisis Daya Dukung Pondasi Tiang Pancang"*

'End If

'If CLapisan2.Value = Checked Then

'xm12 = 0.5

'ElseIf CLapisan2.Value = Unchecked Then

'xm12 = 0.2

'End If

'lapisan11 = Text11.Text - Text10.Text

'lapisan12 = Text13.Text - Text12.Text

qs1 = NrtLap1 * as1 * (0.2 * df)

qa1 = (qu1 + qs1) / sfQa

'Mencari Nilai qa, untuk bentuk kotak

ap2 = B ^ 2

qu2 = 40 * Nb * ap2

as2 = 4 * B

'If CLapisan1.Value = Checked Then

'xm21 = 0.5

'ElseIf CLapisan1.Value = Unchecked Then

'xm21 = 0.2

'End If

'If CLapisan2.Value = Checked Then

'xm22 = 0.5

'ElseIf CLapisan2.Value = Unchecked Then

'xm22 = 0.2

'End If

'lapisan21 = Text11.Text - Text10.Text

'lapisan22 = Text13.Text - Text12.Text

qs2 = NrtLap1 * as2 * (0.2 * df)

qa2 = (qu2 + qs2) / sfQa

'Mencari Nilai qa, untuk bentuk Lingkaran

ap3 = 0.25 * (22 / 7) * (B ^ 2)



Tugas Akhir

*"Aplikasi Program Microsoft Visual Basic 6
dalam Menganalisis Daya Dukung Pondasi Tiang Pancang"*

$qu3 = 40 * Nb * ap3$

$as3 = (22 / 7) * B$

If CLapisan1.Value = Checked Then

'xm31 = 0.5

ElseIf CLapisan1.Value = Unchecked Then

'xm31 = 0.2

End If

If CLapisan2.Value = Checked Then

'xm32 = 0.5

ElseIf CLapisan2.Value = Unchecked Then

'xm32 = 0.2

End If

'lapisan31 = CDec(Text11) - CDec(Text10)

'lapisan32 = CDec(Text13) - CDec(Text12)

$qs3 = NrtLap1 * as3 * (0.2 * df)$

$qa3 = (qu3 + qs3) / sfQa$

If Option1.Value = True Then

Text6.Text = qa1

Text14.Text = qu1

Text15.Text = NrtLap1

Text16.Text = qs1

ElseIf Option2.Value = True Then

Text6.Text = qa2

Text14.Text = qu2

Text15.Text = NrtLap1

Text16.Text = qs2

ElseIf Option3.Value = True Then

Text6.Text = qa3

Text14.Text = qu3

Text15.Text = NrtLap1

Text16.Text = qs3



Tugas Akhir

*"Aplikasi Program Microsoft Visual Basic 6
dalam Menganalisis Daya Dukung Pondasi Tiang Pancang"*

End If

End If

Exit Sub

error: MsgBox Err.Description

End Sub

Private Sub btn_grafik_Click()

Dim delta As Single

B = Text7.Text

pic_pondasiA.Visible = True

pic_pondasiB.Visible = True

Label17.Visible = True

Label17.Caption = "Df"

delta = Text8.Text

ab = delta * 120

pondasiA = 255 + ab

pondasiB = 1080 + ab

pic_pondasiA.Height = pondasiA

pic_pondasiB.Top = pondasiB

Shape3.Height = 0 + B * SkalaY

Shape3.Top = delta * SkalaY

Label17.Top = delta * SkalaY

'=====

Picture1.Refresh

Set rs = New ADODB.Recordset

sql = "SELECT Kedalaman, N FROM tabel_spt WHERE id_titik ='" & Text1.Text & "'
AND id_proyek ='" & Text3.Text & "'"

rs.Open (sql), db, adOpenDynamic, adLockOptimistic

rs.MoveFirst

Do Until rs.EOF



Tugas Akhir

*"Aplikasi Program Microsoft Visual Basic 6
dalam Menganalisis Daya Dukung Pondasi Tiang Pancang"*

```
X1 = rs.Fields("N").Value
```

```
Y1 = rs.Fields("Kedalaman").Value
```

```
rs.MoveNext
```

```
If rs.EOF = False Then
```

```
    X2 = rs.Fields("N").Value
```

```
    Y2 = rs.Fields("Kedalaman").Value
```

```
End If
```

```
Picture1.Line (X1 * SkalaX, Y1 * SkalaY)-(X2 * SkalaX, Y2 * SkalaY), vbBlue
```

```
Loop
```

```
End Sub
```

```
Private Sub btn_kembali_Click()
```

```
Form1.Enabled = True
```

```
Unload Me
```

```
End Sub
```

```
Private Sub btn_lihat_Click()
```

```
FormUjiSPT.Enabled = False
```

```
LihatDataSPT.Show
```

```
End Sub
```

```
Private Sub btn_print_Click()
```

```
Dim sql As String
```

```
FrmPrintSPT.Show
```

```
FrmPrintSPT.CurrentX = 2200
```

```
FrmPrintSPT.CurrentY = 400
```

```
FrmPrintSPT.FontSize = FormUjiSPT.FontSize
```

```
FrmPrintSPT.Print FormUjiSPT.Caption
```

```
FrmPrintSPT.CurrentX = 1000
```



Tugas Akhir

*"Aplikasi Program Microsoft Visual Basic 6
dalam Menganalisis Daya Dukung Pondasi Tiang Pancang"*

```
FrmPrintSPT.Print "-----  
-----"  
FrmPrintSPT.CurrentX = 2200  
FrmPrintSPT.FontSize = 14  
FrmPrintSPT.Print Text4.Text  
FrmPrintSPT.Print ""  
FrmPrintSPT.FontName = "arial"  
FrmPrintSPT.FontSize = 10  
FrmPrintSPT.CurrentX = 1000  
FrmPrintSPT.Print "Identitas titik (SPT)" & vbTab & vbTab & ":" & vbTab & Text1.Text  
FrmPrintSPT.FontName = "arial"  
FrmPrintSPT.FontSize = 10  
FrmPrintSPT.CurrentX = 1000  
FrmPrintSPT.Print "ID Proyek" & vbTab & vbTab & vbTab & ":" & vbTab &  
FormUjiSPT.Text3.Text  
FrmPrintSPT.FontName = "arial"  
FrmPrintSPT.FontSize = 10  
FrmPrintSPT.CurrentX = 1000  
FrmPrintSPT.Print "Kedalaman pondasi (Df)" & vbTab & ":" & vbTab &  
FormUjiSPT.Text8.Text & " (m)"  
FrmPrintSPT.FontName = "arial"  
FrmPrintSPT.FontSize = 10  
FrmPrintSPT.CurrentX = 1000  
FrmPrintSPT.Print "Lebar / sisi pondasi" & vbTab & vbTab & ":" & vbTab &  
FormUjiSPT.Text7.Text & " (m)"  
FrmPrintSPT.FontName = "arial"  
FrmPrintSPT.FontSize = 10  
FrmPrintSPT.CurrentX = 1000  
FrmPrintSPT.Print "Daya Dukung (qa)" & vbTab & vbTab & ":" & vbTab &  
FormUjiSPT.Text6.Text & " (kg/cm2)"  
FrmPrintSPT.Print ""  
FrmPrintSPT.CurrentX = 1600
```



Tugas Akhir

*"Aplikasi Program Microsoft Visual Basic 6
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```
FrmPrintSPT.Print "Kedalaman (m)" & vbTab & " N spt (N2+N3)"
,
Set rs = New ADODB.Recordset
sql = "SELECT Kedalaman, N FROM tabel_spt WHERE id_titik =" & Text1.Text & ""
AND id_proyek =" & Text3.Text & ""
rs.Open (sql), db, adOpenDynamic, adLockOptimistic
Do Until rs.EOF
    Debug.Print rs.Fields("Conus").Value
    X1 = rs.Fields("Kedalaman").Value
    Y1 = rs.Fields("N").Value
    rs.MoveNext
,
FrmPrintSPT.CurrentX = 2200
FrmPrintSPT.Print X1 & vbTab & vbTab & vbTab & Y1
Loop
FrmPrintSPT.CurrentX = 1000
FrmPrintSPT.Print "-----"
FrmPrintSPT.CurrentX = 1200
FrmPrintSPT.FontName = "Comic Sans MS"
FrmPrintSPT.FontSize = 10
FrmPrintSPT.Print "printed at : " & Date
End Sub

Private Sub Check_lap1_Click()
If Check_lap1.Value = Checked Then
Text10.Visible = True
Text11.Visible = True
'CLapisan1.Visible = True
Else
Text10.Visible = False
Text11.Visible = False
'CLapisan1.Visible = False
```



Tugas Akhir

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End If

End Sub

Private Sub Check_lap2_Click()

If Check_lap2.Value = Checked Then

Text12.Visible = True

Text13.Visible = True

'CLapisan2.Visible = True

Else

Text12.Visible = False

Text13.Visible = False

'CLapisan2.Visible = False

Text12.Text = "0"

Text13.Text = "0"

End If

End Sub

Private Sub Form_Load()

Text10.Text = "0"

Combo5.Text = "0"

Text9.Text = 1

Text8.Text = ""

Text7.Text = ""

Text10.Text = ""

Text11.Text = ""

Text12.Text = "0"

Text13.Text = "0"

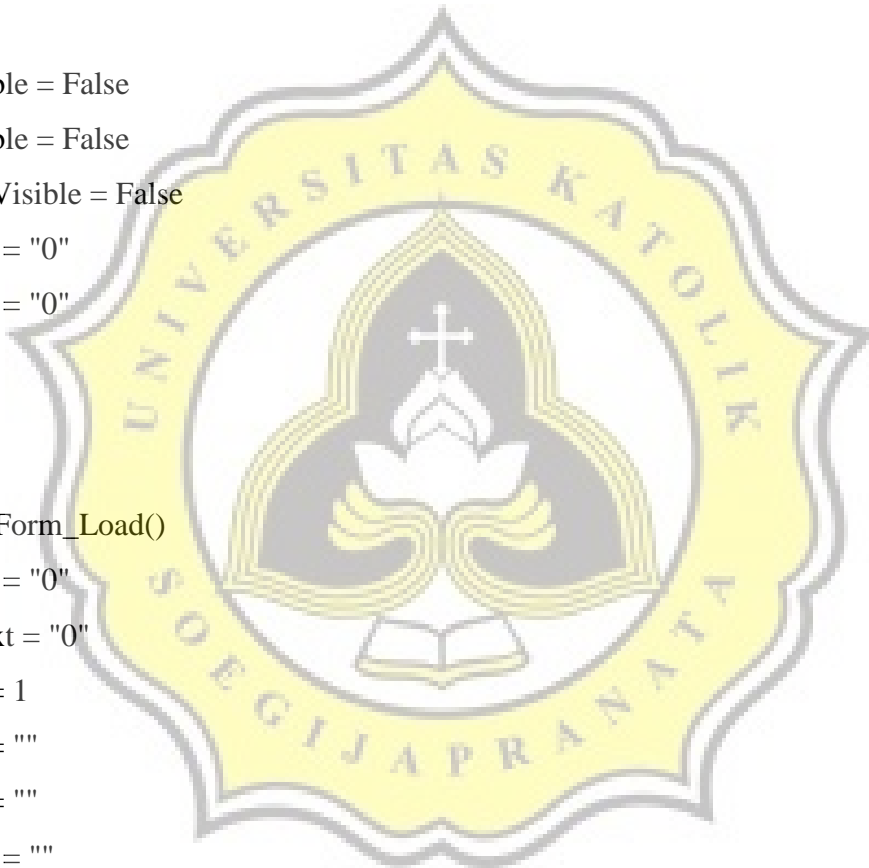
Text14.Text = ""

Text5.Text = ""

Text6.Text = ""

Text15.Text = ""

Text16.Text = ""





Tugas Akhir

*"Aplikasi Program Microsoft Visual Basic 6
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Combo1.AddItem "2.5"

Combo1.AddItem "3"

Combo1.AddItem "5"

'Combo2.AddItem "2.5"

'Combo2.AddItem "3"

'Combo2.AddItem "5"

Call koneksi

Text3.Text = Form1.Text6.Text

Text4.Text = Form1.Text1.Text

Text1.Text = Form1.Combo3.Text

Label3.Visible = False

Text9.Visible = False

'nilai skala dalam menggambar pada VB

SkalaX = 60.25

SkalaY = 120.3

'Titik acuan sumbu Y, sebagai titik nol sumbu Y

End Sub

Private Sub kelompok_tiang_Click()

FormUjiSPT.Enabled = False

FrmTiangSPT.Show

End Sub

Private Sub Option1_Click()

If Option1.Value = True Then

Label3.Visible = True

Text9.Visible = True

End If

End Sub



Tugas Akhir

*“Aplikasi Program Microsoft Visual Basic 6
dalam Menganalisis Daya Dukung Pondasi Tiang Pancang”*

Private Sub Option2_Click()

Label3.Visible = False

Text9.Visible = False

End Sub

Private Sub Option3_Click()

Label3.Visible = False

Text9.Visible = False

End Sub

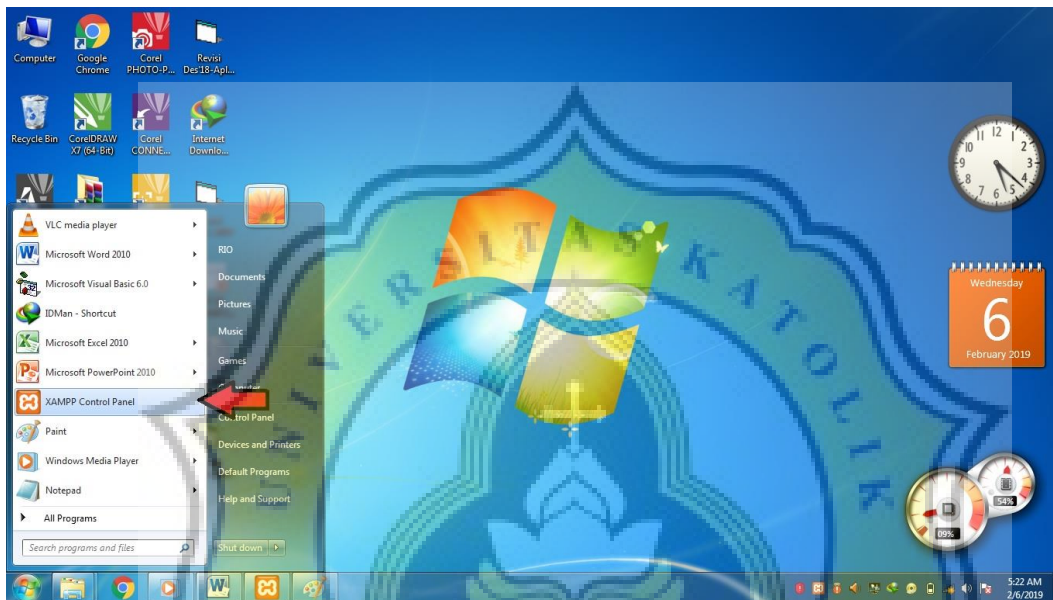




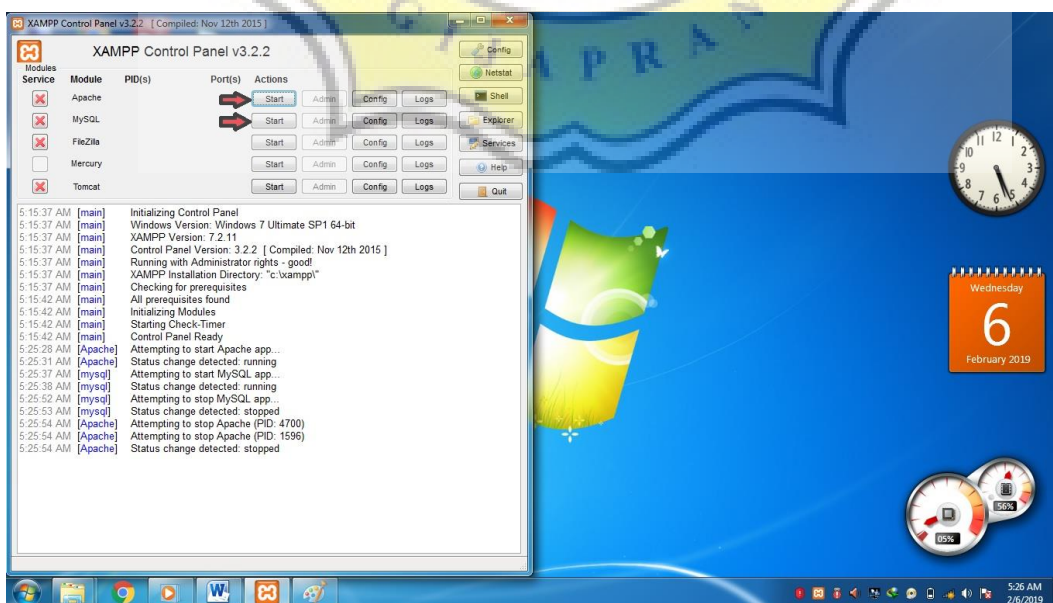
LAMPIRAN 4

Tutorial menggunakan Program Visual Basic 6.0

1. Langkah pertama membuka aplikasi XAMPP Control Panel.



2. Setelah membuka XAMPP Control Panel, klik tombol "start" pada module Apache dan module MySQL.

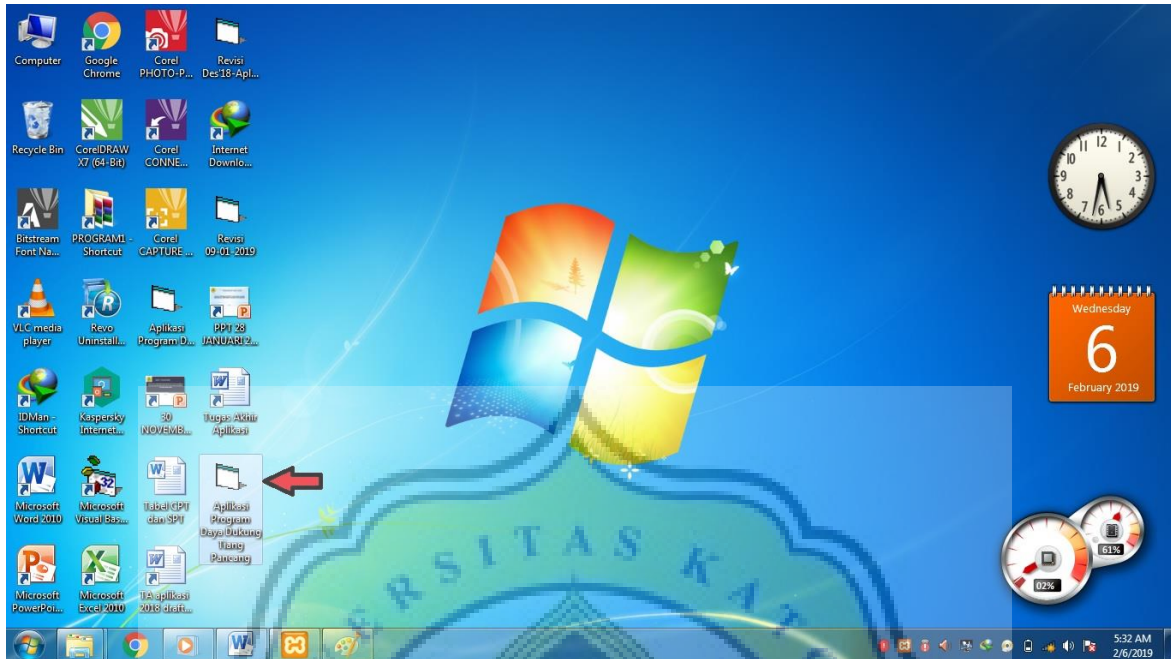




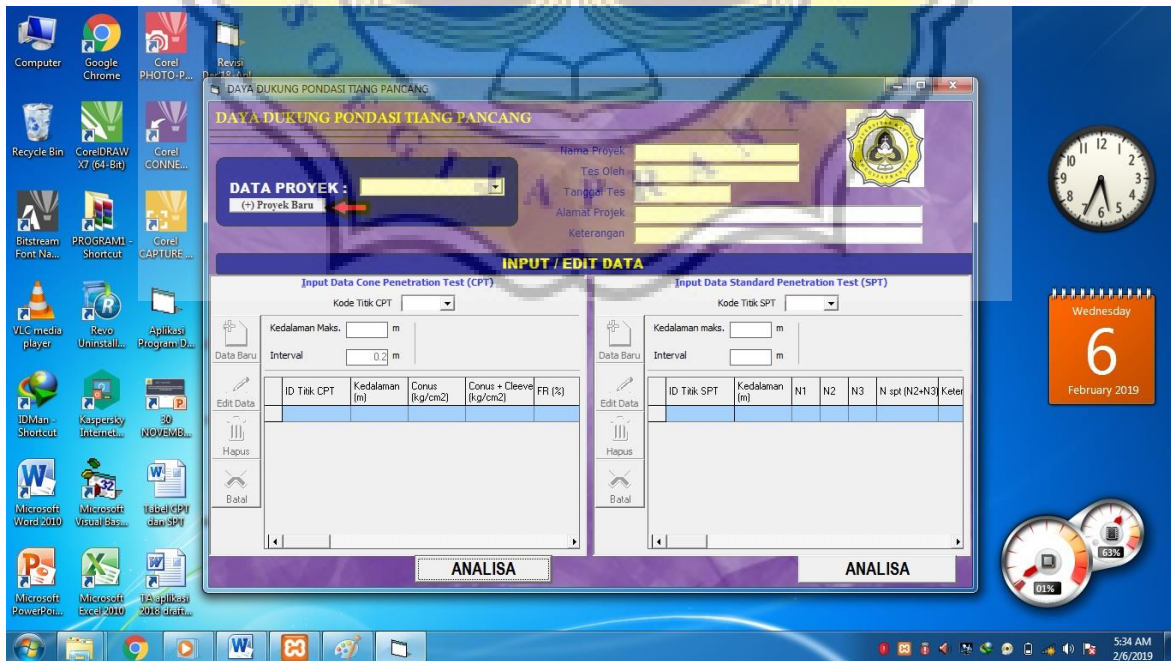
Tugas Akhir

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3. Langkah berikutnya membuka aplikasi program *Visual Basic 6.0*.



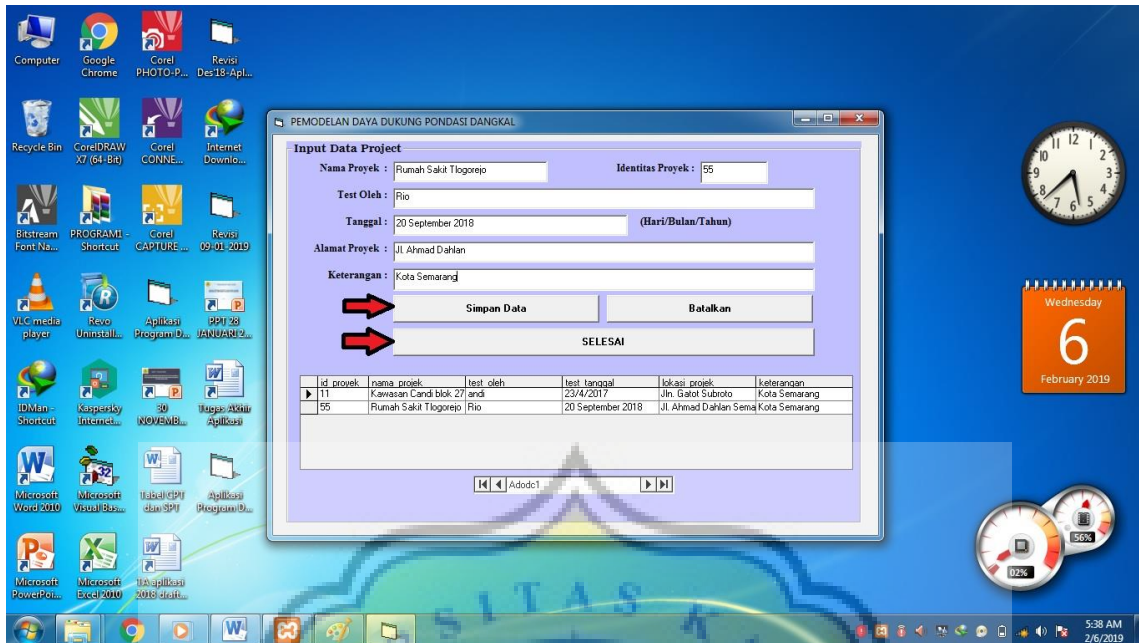
4. Setelah membuka program *Visual Basic 6.0*, langkah awal yaitu membuat data proyek dengan klik tombol "Proyek Baru". Kemudian mengisi data-data proyek sesuai data yang diperoleh. Setelah mengisi data dengan lengkap, klik tombol "Simpan Data" dan klik tombol "SELESAI".



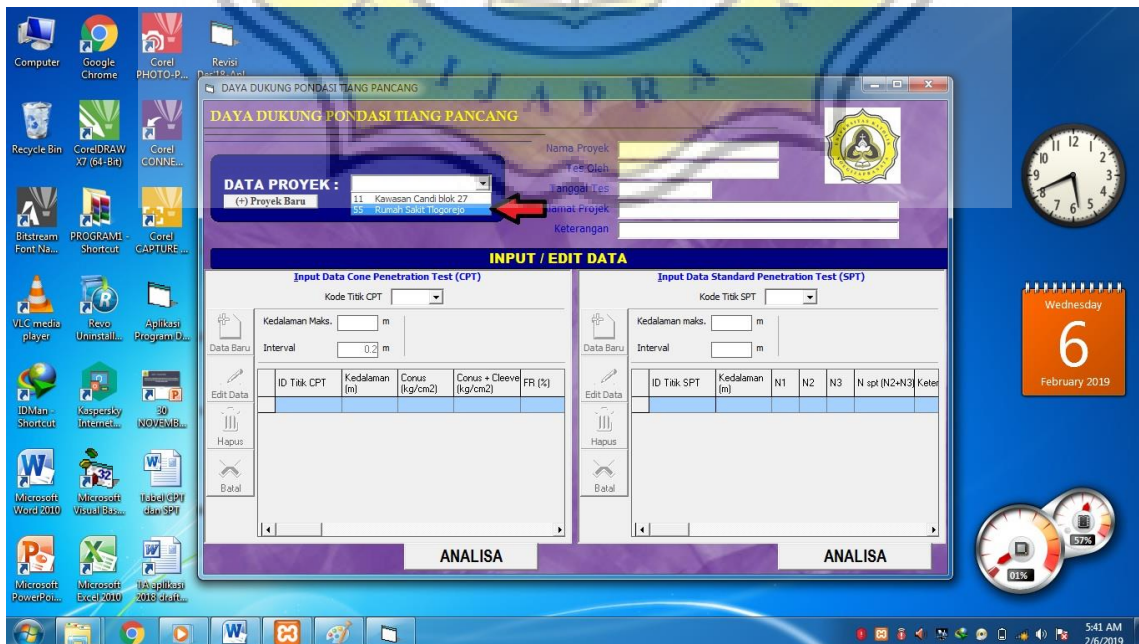


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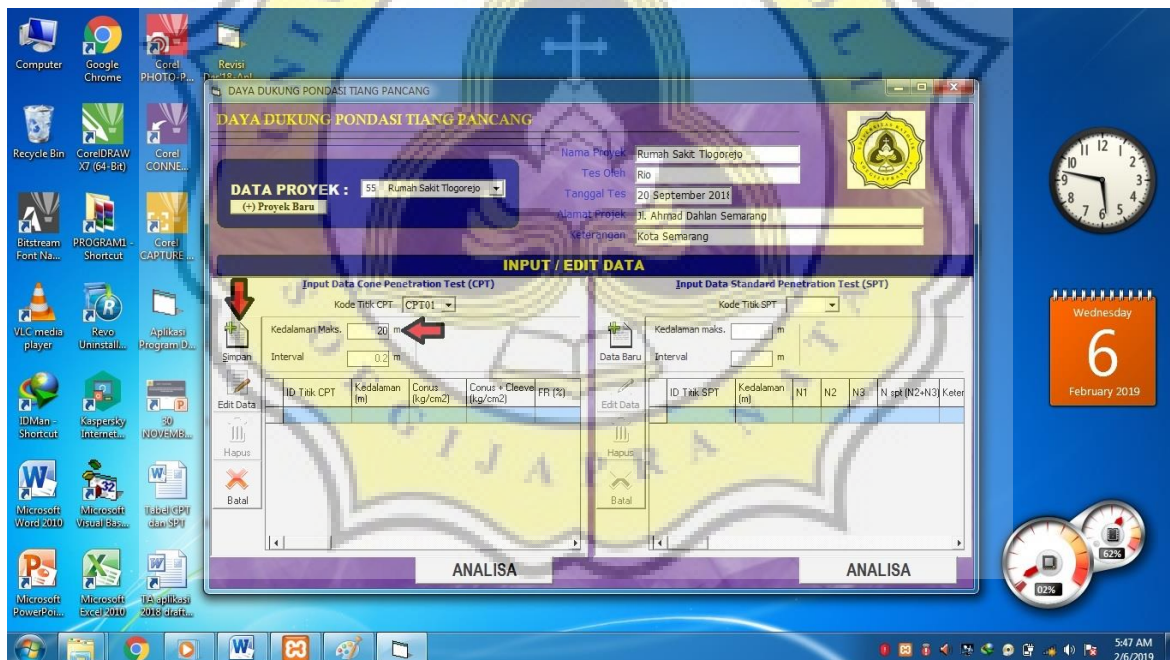
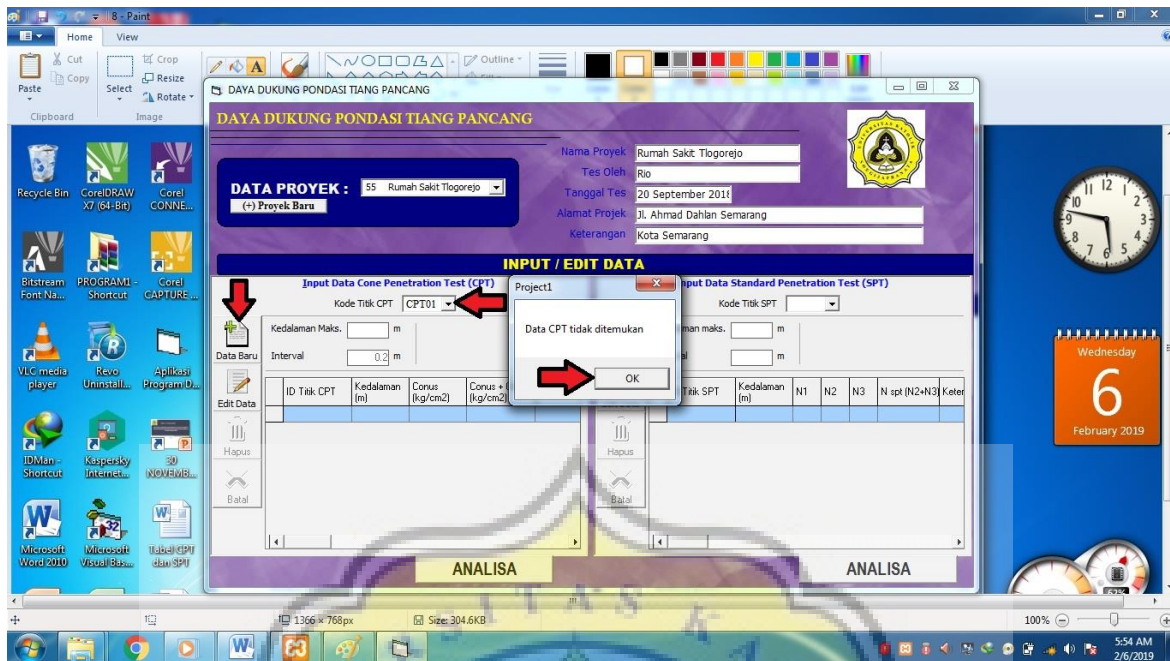
5. Data proyek Rumah Sakit Tlogorejo sudah jadi. Klik proyek Rumah Sakit Tlogorejo pada tombol pilihan “DATA PROYEK”, kemudian mulai mengisi data-data CPT maupun SPT. Langkah utama mengisi data CPT adalah klik tombol pilihan pada “Kode Titik CPT”, kemudian coba klik pada pilihan “CPT01” maka akan muncul kalimat “Data CPT tidak ditemukan” karena data masih kosong dan klik “OK”. Langkah berikutnya klik tombol “Data baru”. Isi data kedalaman maksimal uji CPT sesuai data yang diperoleh pada kolom “Kedalaman Maks”, kemudian klik tombol “Simpan”





Tugas Akhir

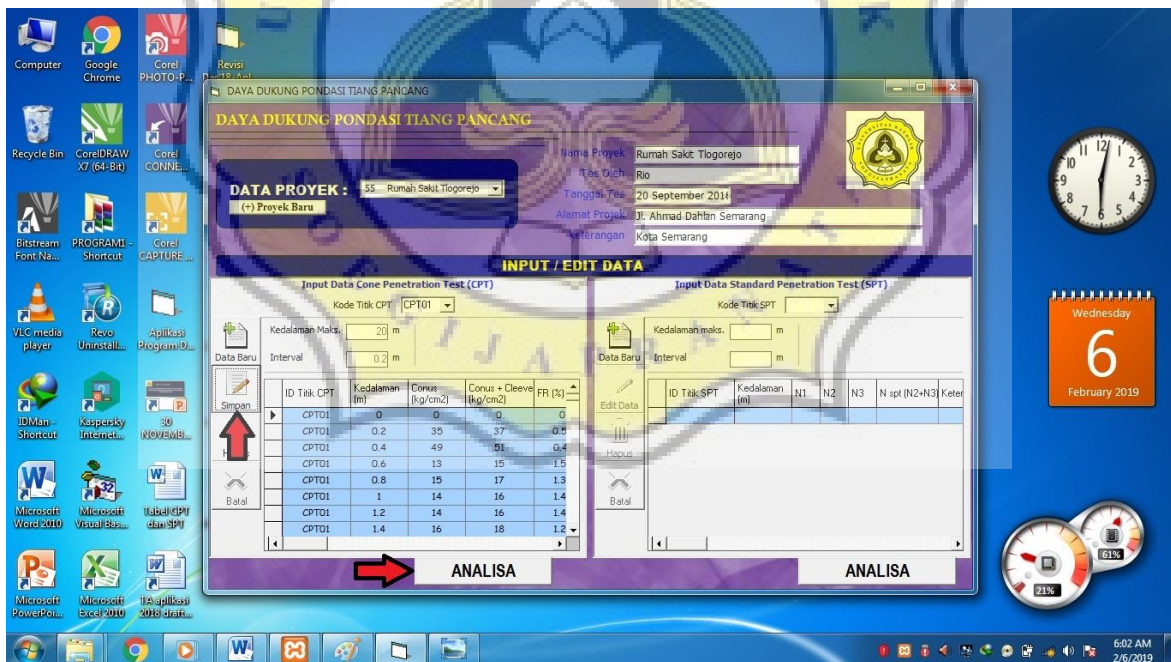
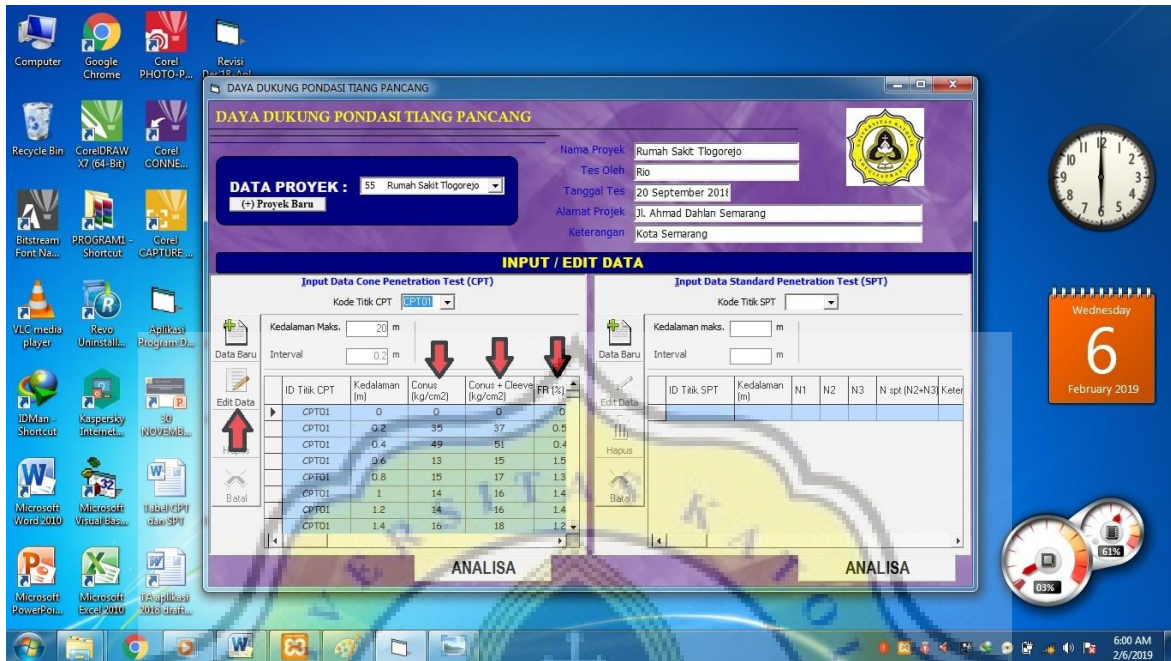
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- Langkah berikutnya klik tombol “Edit Data”, kemudian mengisi R1 (*Conus*), R2 (*Conus + Cleve*), FR pada kolom yang disediakan. Cara mengisi data harus tiap kolom diselesaikan terlebih dahulu baru ke kolom berikutnya. Pertama mengisi data R1 (*Conus*) terlebih dahulu sampai selesai kemudian klik tombol “Simpan”, berlaku untuk



pengisian data R2 (*Conus* + *Cleeve*) sampai FR. Setelah selesai mengisi data dengan lengkap, maka mulai menganalisis dengan klik tombol "ANALISA".



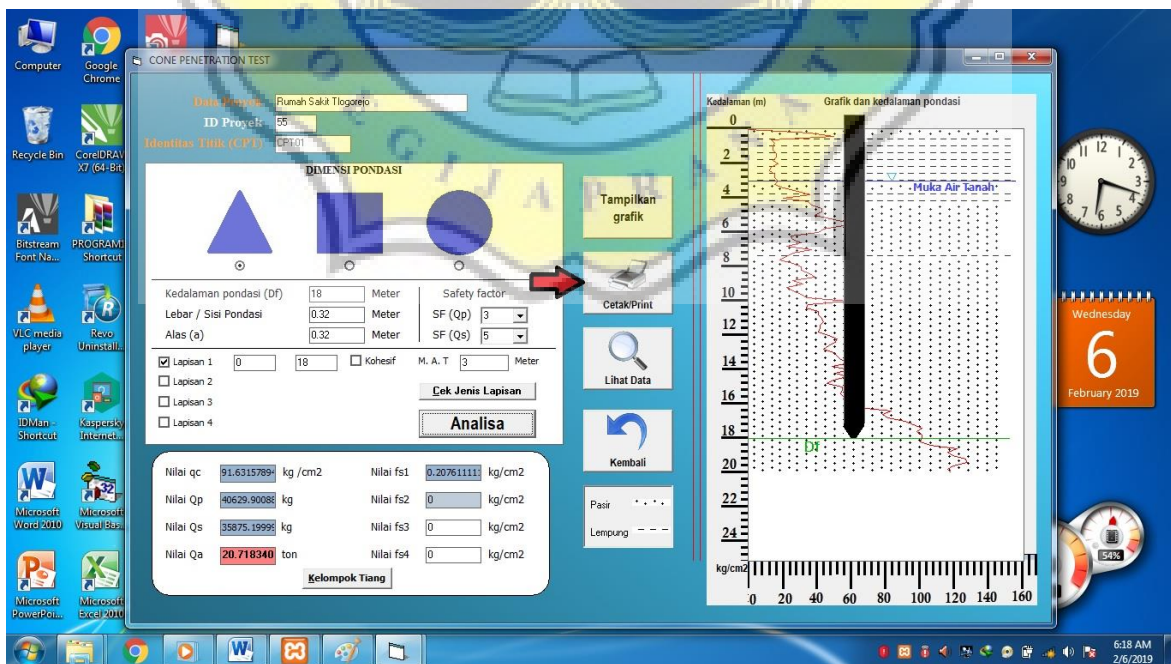
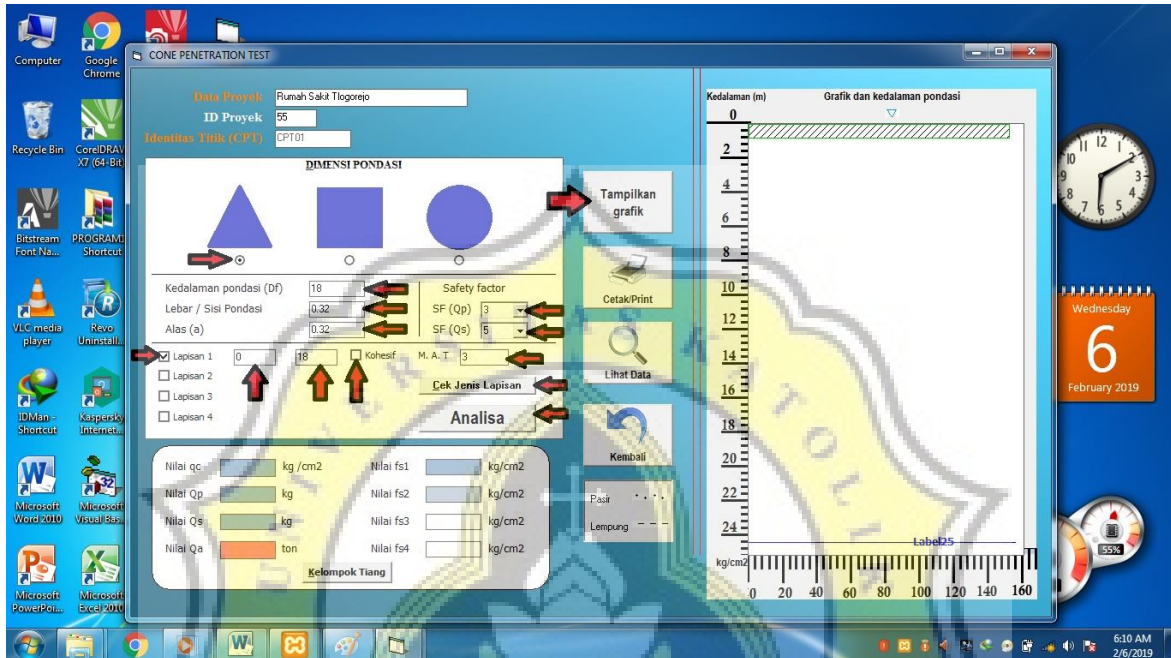
7. Pilih bentuk dimensi yang diinginkan, kemudian mengisi data pada kolom "Kedalaman pondasi" untuk kedalaman pondasi yang diinginkan, kolom "Lebar/sisi pondasi", kolom "Alas (a)", kolom "Safety Factor", data muka air tanah pada kolom "M.A.T.", mengisi



Tugas Akhir

“Aplikasi Program Microsoft Visual Basic 6 dalam Menganalisis Daya Dukung Pondasi Tiang Pancang”

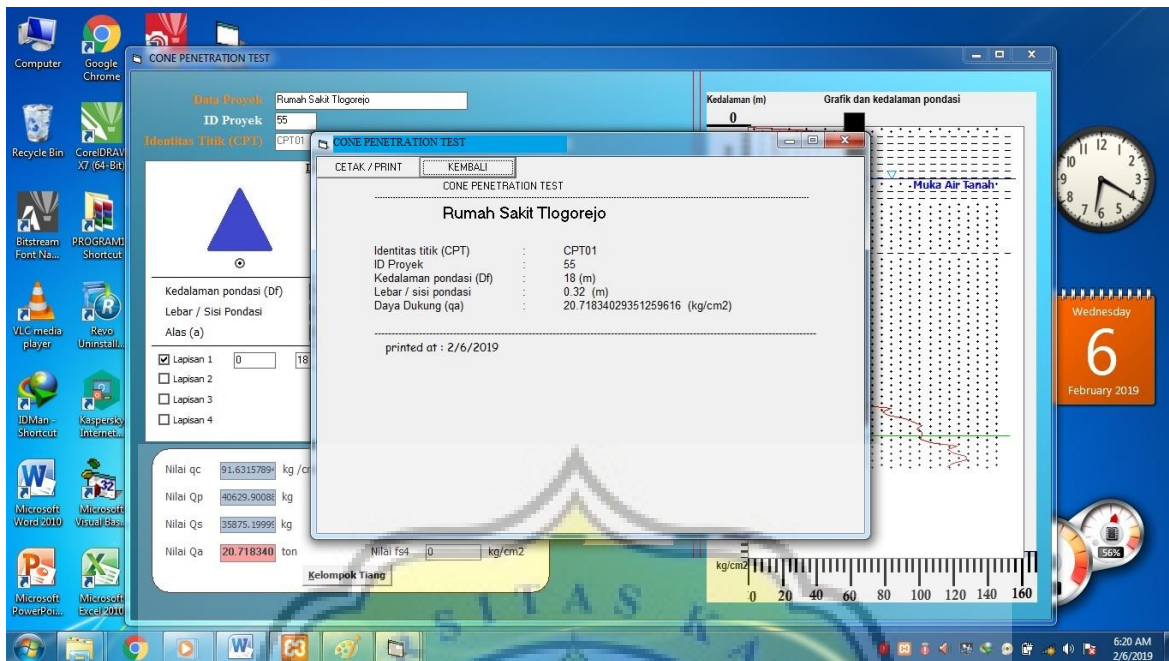
interval lapisan dan klik tombol “Kohesif” apabila tanah berjenis lempung. Setelah lengkap mengisi data, kemudian klik “Analisa” untuk mengetahui hasilnya, klik “Cek Jenis Lapisan” untuk mengetahui karakteristik tanah dari data uji CPT, klik “Tampilkan grafik” untuk melihat grafik q_c dan gambar pondasi tiang. Hasil perhitungan dapat dicetak dengan klik tombol “Cetak/Print”.



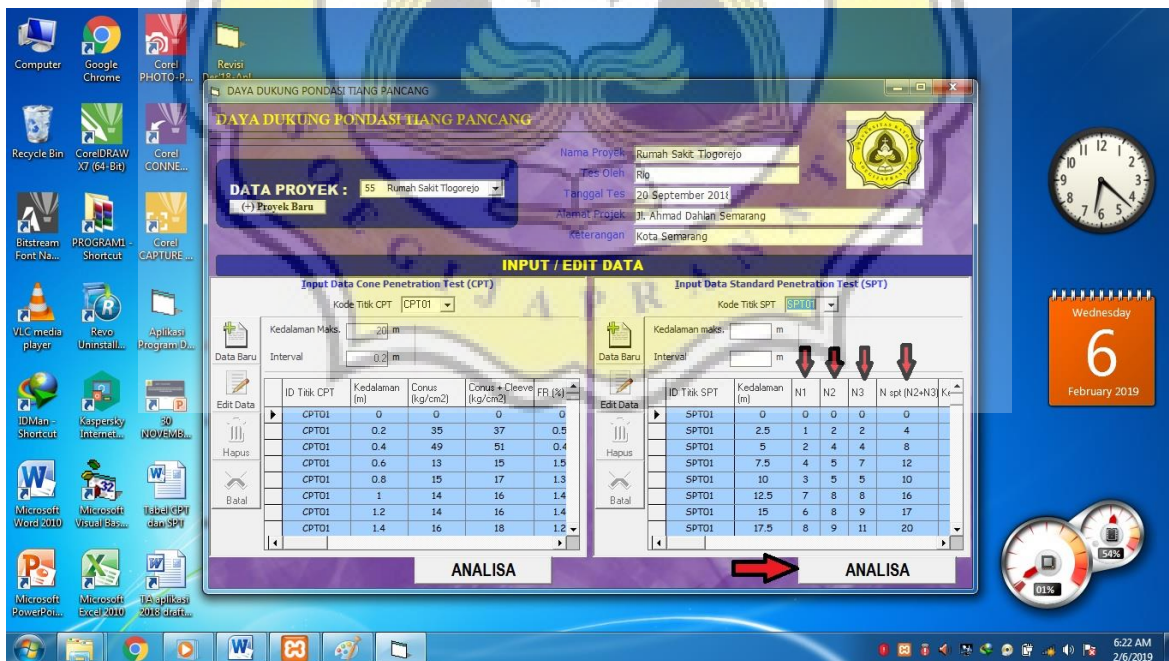


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8. Langkah untuk mengisi data SPT sama seperti mengisi data CPT. Data yang perlu diisi meliputi N1, N2, N3, N_{spt}. Setelah selesai mengisi data lengkap kemudian mulai menganalisis dengan klik “ANALISA”.



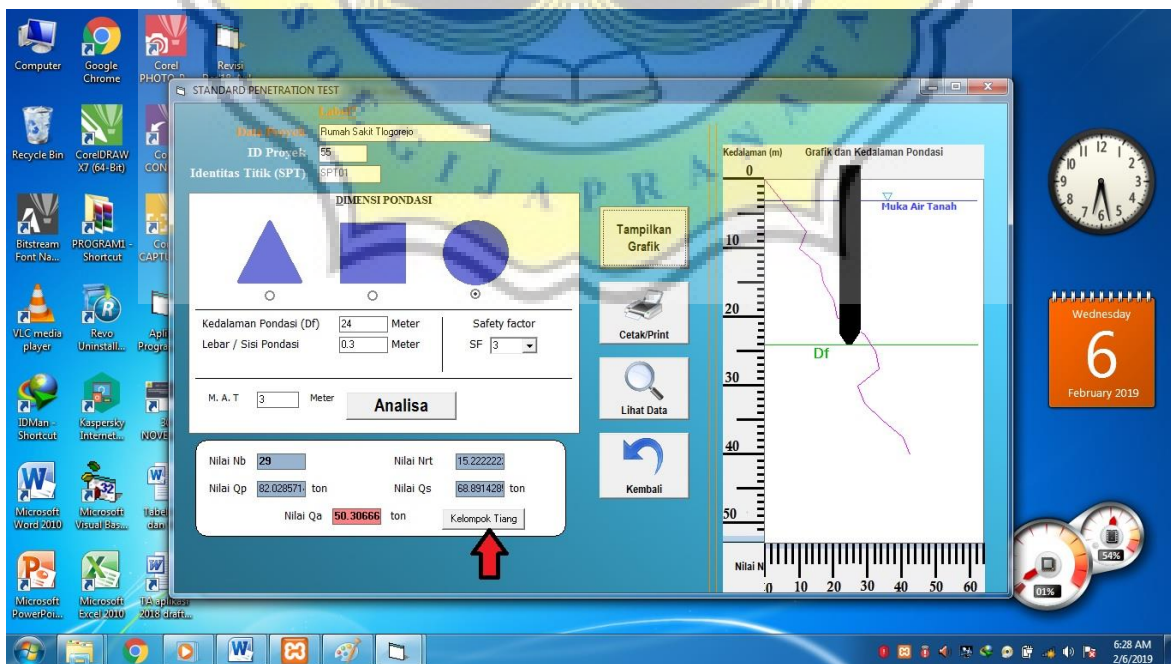
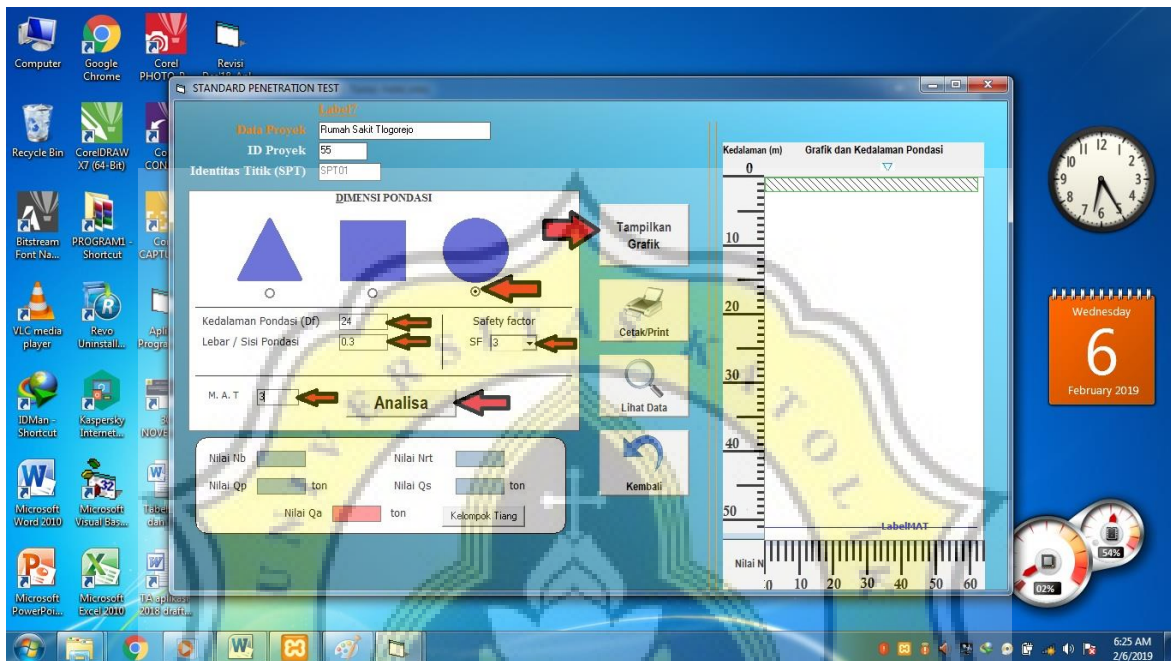
9. Pilih bentuk dimensi yang diinginkan, kemudian mengisi data pada kolom “Kedalaman pondasi” untuk kedalaman pondasi yang diinginkan, kolom “Lebar/sisi pondasi”, kolom



Tugas Akhir

“Aplikasi Program Microsoft Visual Basic 6 dalam Menganalisis Daya Dukung Pondasi Tiang Pancang”

“Safety Factor”, data muka air tanah pada kolom “M.A.T.”. Setelah lengkap mengisi data, kemudian klik “Analisa” untuk mengetahui hasilnya, klik “Tampilkan grafik” untuk melihat grafik dan gambar pondasi tiang. Hasil perhitungan dapat dicetak dengan klik tombol “Cetak/Print”. Untuk perhitungan kelompok tiang, klik tombol “Kelompok Tiang”.

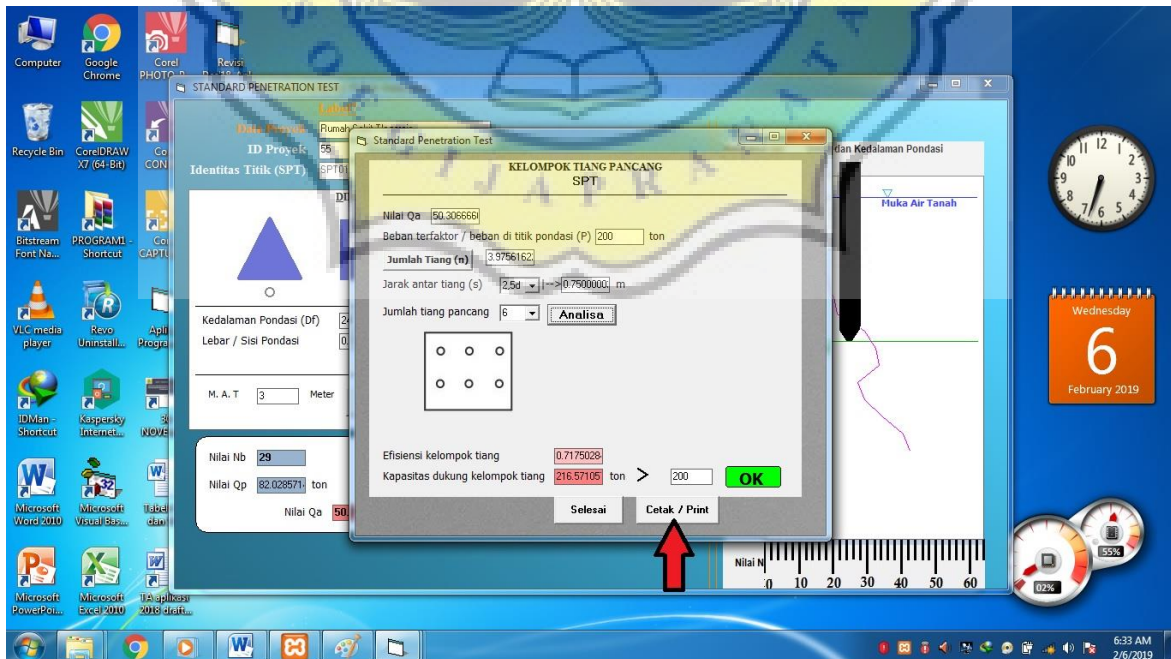
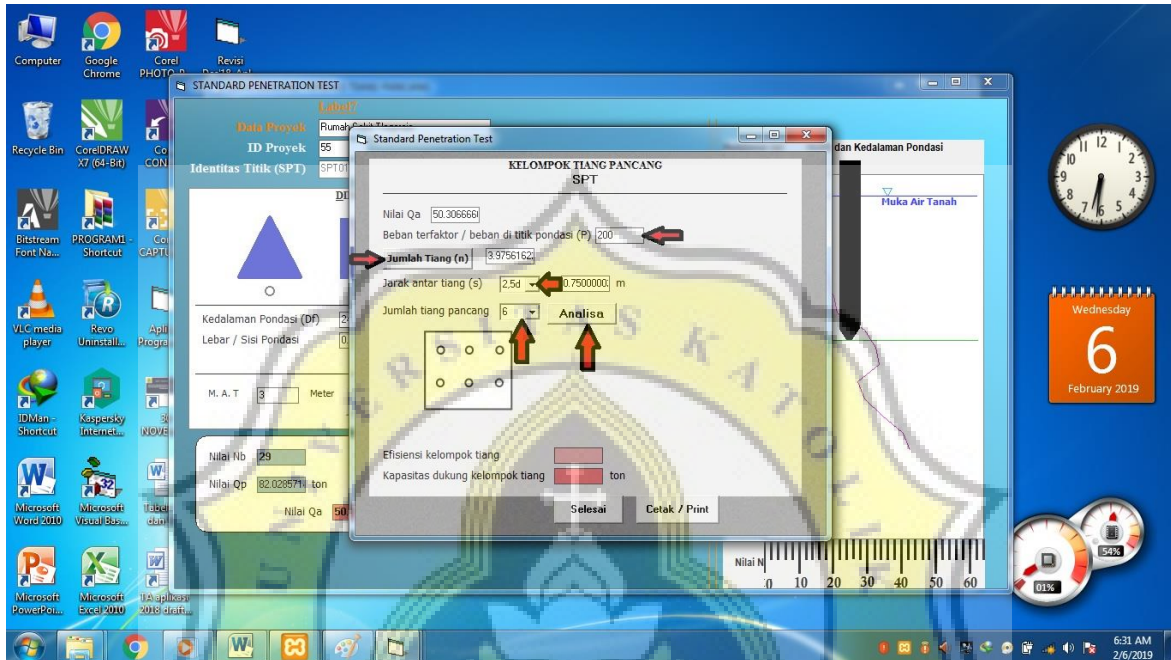




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10. Pada Perhitungan Kelompok Tiang mengisi data pada kolom “Beban terfaktor/beban di titik pondasi (P)”, klik tombol “Jumlah Tiang (n)”, mengisi data “Jarak antar tiang (s)”, klik pilihan “Jumlah tiang pancang”. Setelah selesai mengisi data dengan lengkap, klik tombol “Analisa”. Setelah keluar hasilnya, hasil perhitungan kelompok tiang dapat dicetak dengan klik tombol “Cetak/Print”.





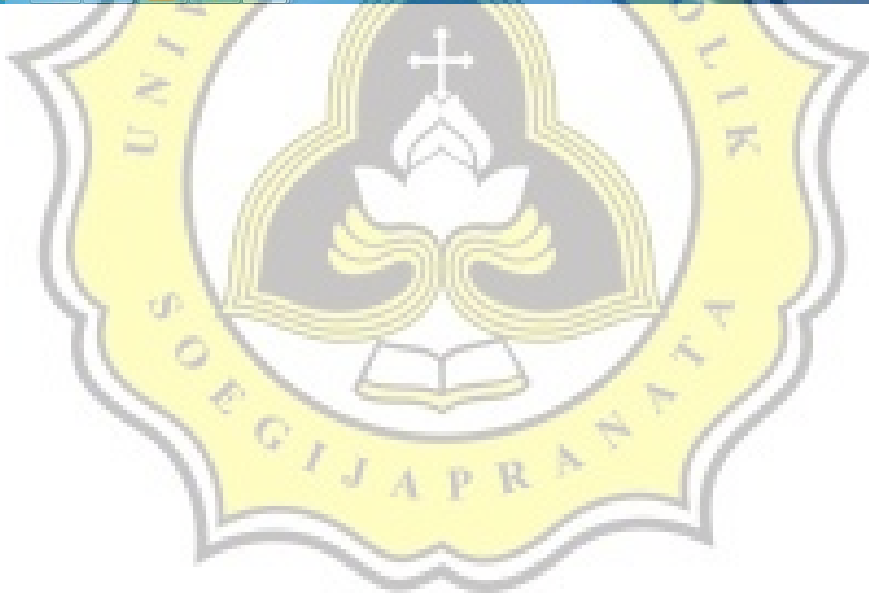
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The screenshot shows a Windows desktop environment. A window titled 'STANDARD PENETRATION TEST' is open, displaying the following data:

STANDARD PENETRATION TEST	
Rumah Sakit Tlogorejo	
Identitas titik (SPT)	50.3066666666667
ID Proyek	55
Kedalaman pondasi (Df)	24 (m)
Lebar / sisi pondasi	0.3 (m)
Daya Dukung (qa)	50.3066666666667 (kg/cm ²)
Efisiensi Kelompok Tiang (Eg)	0.717502941234759
Kapasitas Dukung Kelompok Tiang (Qg)	216.571057593 (kg/cm ²)

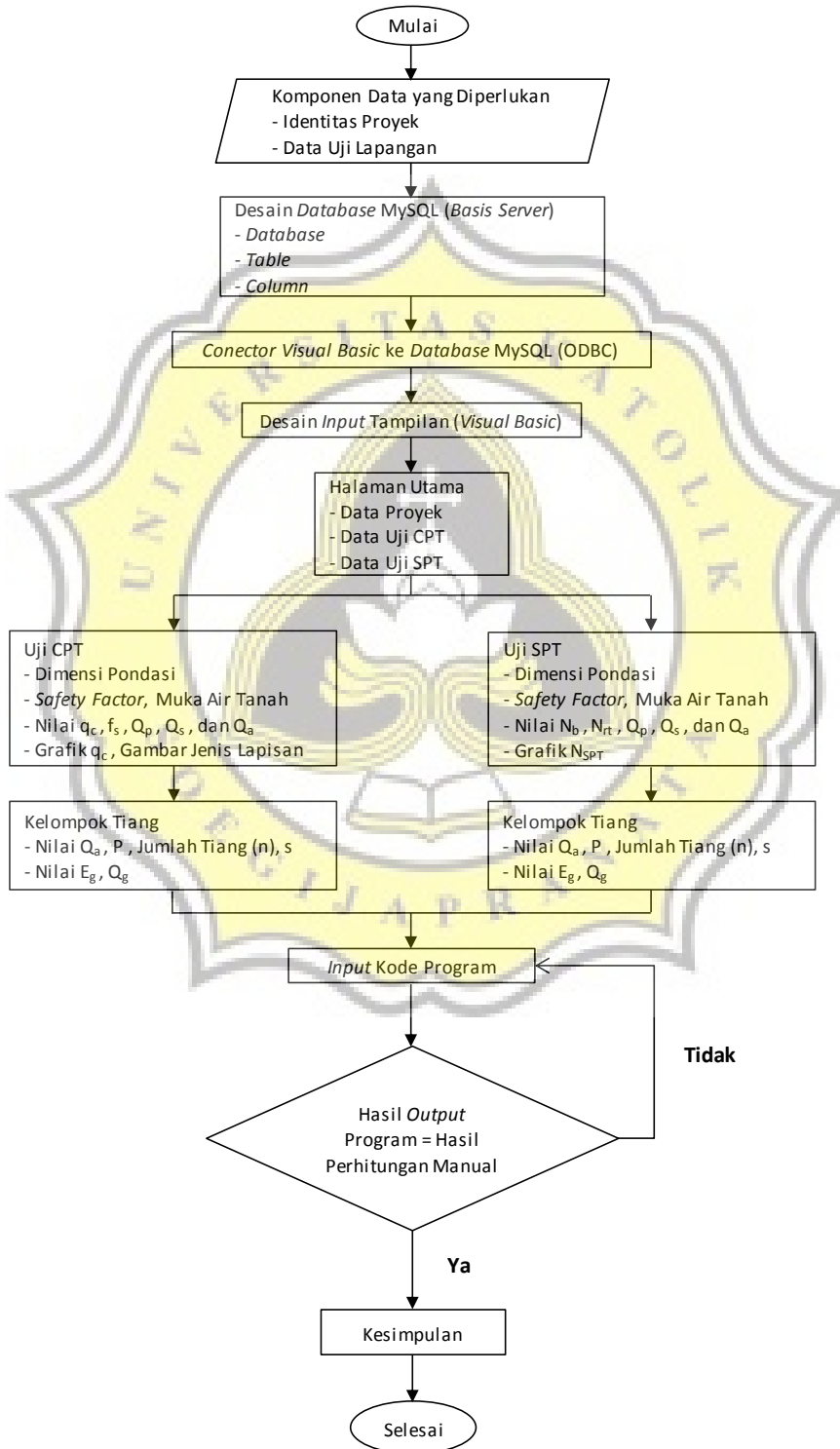
Additional information from the screenshot includes a clock showing 6:35 AM on 2/6/2019, a calendar for Wednesday, February 6, 2019, and a taskbar with various application icons.





LAMPIRAN 5

Flowchart Aplikasi Pondasi Tiang Pancang



PENDAHULUAN

1.1 Latar Belakang

Setiap konstruksi bangunan seperti pondasi, mesara, bundangan, jembatan dan sebagainya harus mempunyai pondasi yang cukup kuat untuk menopang bangunan struktur di atasnya. Pondasi adalah bangunan struktur bawah yang berfungsi sebagai penyalur beban bangunan di atasnya dan menyalurkan beban tersebut ke dalam lapisan tanah yang cukup kuat daya dukungnya yaitu lapisan tanah keras. Pada kondisi tertentu, lapisan tanah dapat mengalami penurunan akibat pembebanan dari pondasi itu sendiri dan bangunan struktur yang berada di atasnya. Pondasi merupakan salah satu faktor penting dalam sebuah bangunan, apabila terjadi kesalahan dalam perhitungan pondasi maka berakibat fatal pada bangunan struktur di atasnya dan kemungkinan mengalami keruntuhan bangunan sangat besar.

Dalam perhitungan pondasi perlu dilakukan analisis daya dukung tanah terhadap kondisi tanah di lapangan. Daya dukung adalah kemampuan tanah untuk menahan beban pondasi itu sendiri maupun beban struktur yang terletak di atasnya. Daya dukung terhadap arah geser tanah yaitu kemampuan tanah yang dibuktikan di sepanjang bidang-bidang gempunya akibat geseran dari pembebanan tersebut. Untuk mengetahui kondisi tanah di lapangan, perlu dilakukan penyelidikan tanah menggunakan alat sondir maupun SPT. Hasil penyelidikan tanah ini sangat penting dalam perencanaan pondasi sehingga pekerjaan yang telah sangat diperhatikan.

Pada umumnya metode yang sering digunakan untuk mengetahui daya dukung adalah Meyerhof. Dengan metode ini jika dilakukan perhitungan secara manual akan memerlukan waktu yang lama, terutama bagi mereka yang belum berpengalaman. Perkembangan zaman dalam era pembangunan sekarang ini para insinyur maupun ahli dituntut untuk melakukan pekerjaan yang lebih cepat karena sudah terjadi persaingan global. Oleh karena itu, sangatlah perlu untuk dikembangkan suatu program komputer.

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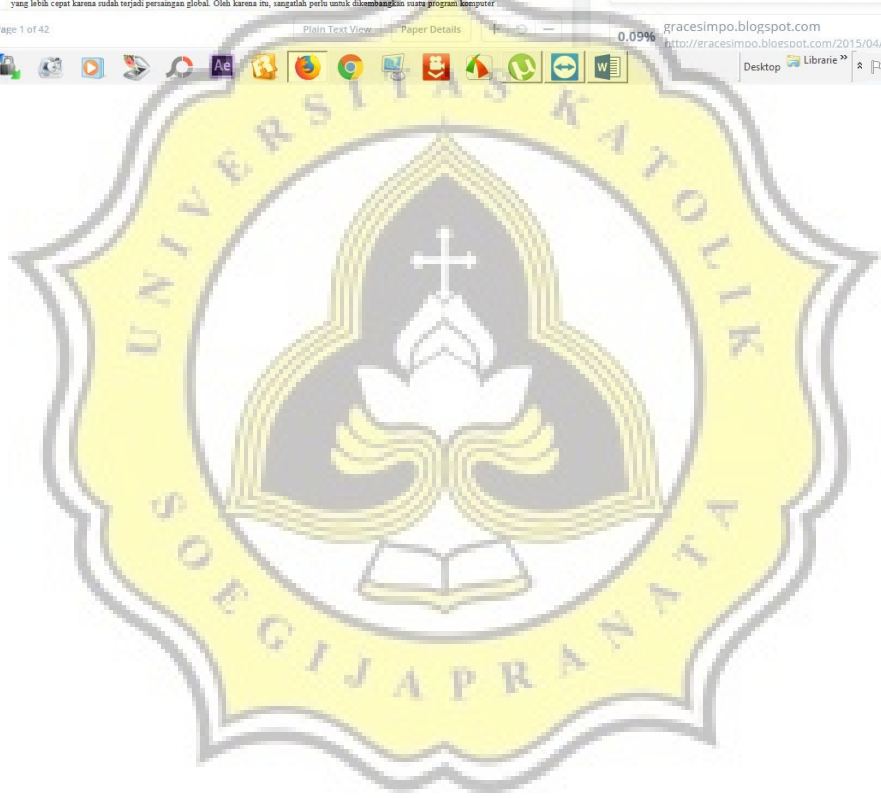
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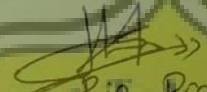
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