

# CHAPTER V

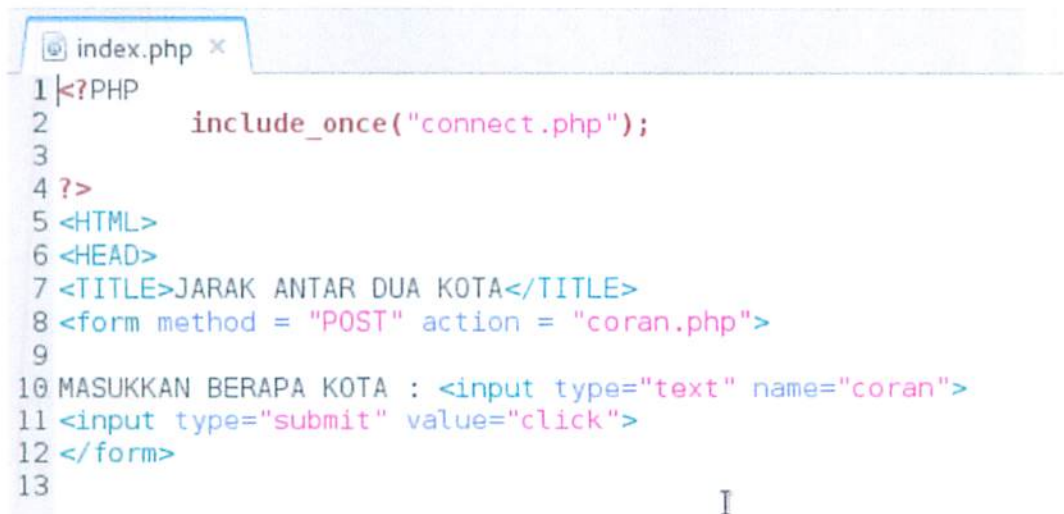
## IMPLEMENTATION AND TESTING

### 5.1 Implementation

First, we have to activate XAMPP. Log into the terminal, and type su then enter the password, the next step typing / opt / lampp / lampp start and to be able to turn the file into the browser it is done typing chmod 777 -R / opt / lampp / htdocs / (folder name) TARICKY / then go into the browser and type localhost / TARICKY / index.php.

#### 5.1.1 Step 1

This program shows the making of the fields that will be filled in a lot of cities that user as the desired user and make the button click button to next step.



```
index.php x
1 |<?PHP
2     include_once("connect.php");
3
4 ?>
5 <HTML>
6 <HEAD>
7 <TITLE>JARAK ANTAR DUA KOTA</TITLE>
8 <form method = "POST" action = "coran.php">
9
10 MASUKKAN BERAPA KOTA : <input type="text" name="coran">
11 <input type="submit" value="click">
12 </form>
13
```

Figure 5.1.1 Source Code Showing All Data

### 5.1.2 Step 2

This program is to fill in the name of the desired city by the user and to fill in the distance. fill in the name of the many cities adapted to input a lot of cities that are loaded before the first user, such as user input many cities 4 then the user also must specify the name of the city as much as 4 times also.

```
1 echo "table border='10' bgcolor='pink'";
2   for($i=1 ; $i<=$bykkota ; $i++)
3   {
4     echo "<tr>";
5     for($j=1 ; $j<=$bykkota ; $j++)
6     {
7       //kolom 1 baris 1 kosongan
8       IF($i==1 && $j==1)
9       {
10        echo "<td>";
11        echo "</td>";
12      }
13      ELSE IF($j == 1)
14      {
15        //kolom 1
16        echo "<td>";
17        $a=$i-1;
18        echo "<font color='blue'><h2>". $city[$a]. "</h2><font>";
19        echo "</td>"; //td baris
20      }
21      ELSE IF($i == 1)
22      {
23        echo "<td>";
24        $a=$j-1;
25        echo "<font color='blue'><h2>". $city[$a]. "</h2><font>";
26        echo "</td>";
27      }
28      ELSE IF($i == $j)
29      {
30        echo "<td><h1><font color='blue'></font><h1></td>";
31      }
32    }
33  }
34 }
```

Figure 5.1.2 Source code to input cities and distance

### 5.1.3 Step 3

After user input the city name is entered and gives the distance, then the last step is to display the name of the city and the distance into a column and row is called the matrix.

```
echo "<table border='5' bordercolor='black' bgcolor='yellow'>";
$jr=0;

for($i=1 ; $i<=$bykota ; $i++)
{
    echo "<tr>";
    for($j=1 ; $j<=$bykota ; $j++)
    {
        //kolom 1 baris 1 kosongan
        IF($i==1 && $j==1)
        {
            echo "<td>";

            echo "</td>";
        }
        ELSE IF($j == 1)
        {
            //kolom 1
            echo "<td>";
            $a=$i-1;
            echo "<font color='blue'><nl>". $city[$a]. "</nl><font>";
            echo "</td>"; //td baris
        }
        ELSE IF($i == 1)
        {
            echo "<td>";
            $a=$j-1;
            echo "<font color='blue'><nl>". $city[$a]. "</nl><font>";
            echo "</td>";
        }
        ELSE IF($i == $j)
    }
}
```

*Figure 5.1.3 Source Code To Matrix Form*

## 5.2 Testing

To know how far the tolerance of these applications with input different cities, the process generated by this application will see the truth. These are the testing result table:

*Table 5.2 Testing Table*

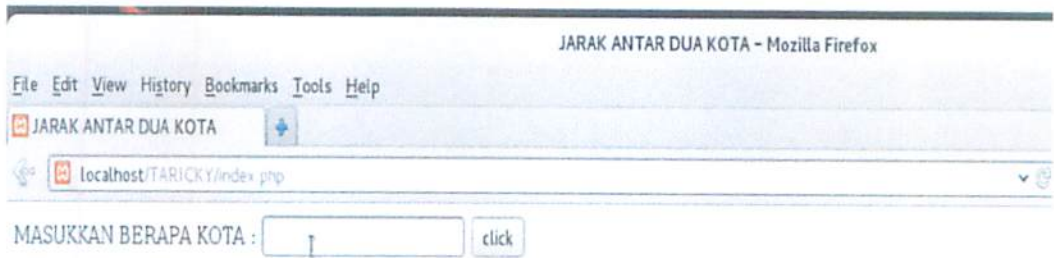
No	Cities Selected	Application Result	Successfully
1	4 City = Semarang, Banjarnegara, Yogyakarta, Kudus and Distance	Semarang, Banjarnegara, Yogyakarta, Kudus	100%
2	5 City = Pati, Klaten, Semarang, Yogyakarta, Banjarnegara	Pati, Klaten, Semarang, Yogyakarta, Banjarnegara	100%
3	6 City = Semarang, Yogyakarta, Sragen, Pekalongan, Blora, Ponorogo	Semarang, Yogyakarta, Sragen, Pekalongan, Blora, Ponorogo	100%
4	8 City = Yogyakarta, Kudus, Pekalongan, Pati, Bandung, Banjarnegara, Lembang	Yogyakarta, Kudus, Pekalongan, Pati, Bandung, Banjarnegara, Lembang	50%
SUCSESFULLY			85%

From the above test we can see when the user enter more than 7 of the city is not able to keep up due to storage only 7 only, then this program is not yet able to walk perfectly.

## 5.3 Interface

### 5.3.1 Main Menu

Open a browser and type in: localhost / (foldername) TARICKY / index.php. Then much input the desired city and then click the button



*Figure 5.3.1 Index*

### 5.3.2 Enter the city name and the distances between cities

Top left button will appear as the number of cities that previously entered and then fill in the name of the city. After filling in the name of the city in the city then the label under the table will automatically change according to the name of the city that is loaded. Then give the distance between cities in the textbox that had been prepared.



Figure 5.3.2 Select the cities from all data

### 5.3.3 City and the distance Matrix

So this is the result of input city names and distances between cities that had been filled in by the user, if the name of the city x and y equal the distance does not appear in the table or equal to 0.

**SIMPAN JARAK DAN KOTA SATUAN KM**

	SEMARANG	BANJARNEGARA	YOGYAKARTA	KUDUS
SEMARANG		30	40	50
BANJARNEGARA	30		60	83
YOGYAKARTA	40	60		71
KUDUS	50	83	71	

*Figure 5.3.3 Displaying the Matrix*