

## APPENDIX

### CODING MEMBUAT KOTAK

```
function set_elements(n)
{
    var result = $('#result');
    var i;
    result.html('');
    result.css('position', 'relative');
    result.css('margin', '100px 0 0 0');
    result.css('height', '100px');

    for (i = 0; i < n; i = i + 1)
    {
        var x = 50 * i;
        item.attr('id', 'el_' + i);
        item.css('position', 'absolute');
        item.css('width', '30px');
        item.css('height', '30px');
        item.css('text-align', 'center');
        item.css('line-height', '30px');
        item.css('border', '2px solid #0000FF');
        item.css('left', x);
        result.append(item);
    }
}
```

### CODING INSERT KOTAK

```
<form action="">
  <table>
    <tbody>
      <tr>
        <th><label
          for="num_elements">INSERT</label></th>
        <td>
          <select id="num_elements"
            name="num_elements"
            onchange="set_elements(this.value);">
            <option value="1">1</option>
            <option value="2">2</option>
            <option value="3">3</option>
            <option value="4">4</option>
            <option value="5">5</option>
            <option value="6">6</option>
            <option value="7">7</option>
            <option value="8">8</option>
            <option value="9">9</option>
          </select>
        </td>
      </tr>
    </tbody>
  </table>
</form>
```

```

        <option value="10">10</option>
        <option value="11">11</option>
        <option value="12">12</option>
        <option value="13">13</option>
        <option value="14">14</option>
        <option value="15">15</option>
        <option value="16">16</option>
        <option value="17">17</option>
        <option value="18">18</option>
        <option value="19">19</option>
        <option value="20">20</option>
    </select>
</td>
</tbody>
</table>
</form>

function demo()
{
    var n =
    parseInt(document.getElementById('num_elements').value, 10);
    var result = $('#result');
}

```

### CODING RANDOM KOTAK

```

<script type="text/javascript">
    var listNumber = new Array();
    function swap_animate(result, el_i, x_i, el_j, x_j)
    {
        result.queue(function (next)
        {
            el_i.animate({top: 0}, 150, function () { next(); });
        });
        if (x_i !== x_j)
        {
            result.queue(function (next)
            {
                el_i.animate({top:0,left: x_j}, 700);
                el_j.animate({top:0,left: x_i}, 700, function ()
                { next(); });
            });
        }
        else

```

```

    {
        result.delay(300);
    }
}

function demo()
{
    var n =
parseInt(document.getElementById('num_elements').value, 10);
    var result = $('#result');

    if (!result.queue().length)
    {
        var i = n - 1;
        var j;

        if ($('#el_' + i).length)
        {
            set_elements(n);
        }

        while (i > 0)
        {
            j = Math.floor(Math.random() * (i + 1));
            var el_i = $('#el_' + i);
            var el_j = $('#el_' + j);
            var temp = el_i.html();
            listNumber[i] = listNumber[j];
            listNumber[j] = temp;
            el_i.attr('id', 'el_temp');
            el_j.attr('id', 'el_' + i);
            el_i.attr('id', 'el_' + j);

            swap_animate(result, el_i, 50 * i, el_j,
50 * j);

            i = i - 1;
        }
    }
}

```

## CODING ALGORITMA EXCHANGE SORT

```
function exchangeSort()
{
    var n = listNumber.length;
    var result1 = $('#add');
    var val2 = ""; //variabel val2
    var counter = 0;

    var strTodis= "";
    for (var a = 0; a < n; a++)
    {
        strTodis += listNumber[a] + " | ";
    }

    console.log(strTodis);
    var item = $('<p></p>').html(strTodis+"<br>");

    set_elements_square(n,counter++, 0,0 );
    for (var i = 0; i < n; i++)
    {
        console.log("iterasi ke "+i);
        var item = $('<p></p>').html("iterasi ke
"+i+"<br>");

        result1.append(item);
        set_elements_square(n,counter++,0,0 );

        for(var j=1; j < (n-i); j++)
        {
            if(listNumber[j-1] > listNumber[j])
            {
                var temp = listNumber[j-1];
                listNumber[j-1] = listNumber[j];
                val2 = listNumber[j];
                listNumber[j] = temp;
            }
        }

        var strTodis= "";
        for (var a = 0; a < n; a++)
        {
            if (val2 == listNumber[a] || temp ==
                listNumber[a])
            {
                strTodis +=
"<b>"+listNumber[a] + "</b> | ";
            }

            else
            {

```

```

";
                                strTodis += listNumber[a] +"|
                                }
                                }

                                console.log(strTodis);
                                var item = $
('<p></p>').html(strTodis+"<br>");
                                set_elements_square(n,counter+
+,val2,temp );

                                }
                                }

                                var strCons = "";
                                for (var i = 0; i < n; i++)
                                {
                                    strCons += listNumber[i] +" | ";
                                }
                                console.log(strCons+" | ")
                                }
                                }

```

### CODING ALGORITMA SHELL SORT

```

function shellSort()
{
    var N = listNumber.length;
    var inner, outer;
    var temp, val2;
    var h = 1;
    var len = listNumber.length;
    var i=0;
    var counter = 0;
    var n = len;
    var result1 = $('#add');
    result1.html('');

    while (h <= len / 3)
    {
        h = h * 3 + 1;
        console.log('nilai interval' + h);
    }

    var item = $('<p></p>').html("interval K =
+h+"<br>");
    result1.append(item)

    var strTodis= "";
    for (var a = 0; a < N; a++)
    {

```

```

        strTodis += listNumber[a] +" | ";
    }

    console.log(strTodis);
    while (h > 0) // decreasing h, until h=1
    {
        console.log("iterasi ke "+i);
        var item = $('<p></p>').html("interval K =
+i+<br>");
        result1.append(item);
        set_elements_square(n,counter++, -1, -1 );

        for (outer = h; outer < len; outer++)
        {
            temp = listNumber[outer];
            inner = outer;
            strTodis= "";

            while (inner > h - 1 && listNumber[inner -
h] >= temp)
            {
                listNumber[inner] = listNumber[inner
- h];
                val2 = listNumber[inner];
                inner -= h;
            }

            listNumber[inner] = temp;

            set_elements_square(n,counter++, val2, temp);
            for (var a = 0; a < N; a++)
            {
                if (val2 == listNumber[a] || temp ==
listNumber[a])
                {
                    strTodis +=
"<b>"+listNumber[a] + "</b> | ";
                }
            }
            else
            {
                strTodis += listNumber[a] +"|
";
            }
        }

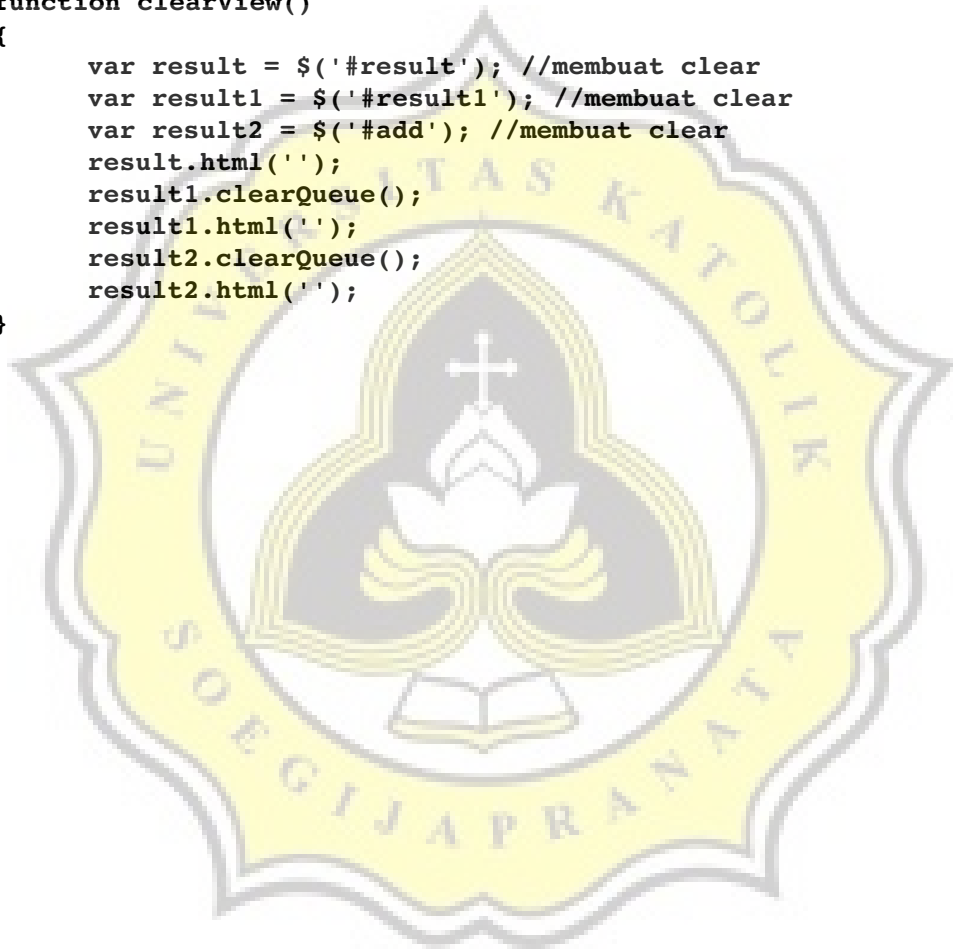
        console.log(strTodis);
    }
}

```

```
    }  
    h = (h - 1) / 3; // decrease h  
    i++;  
  }  
}
```

### CODING CLEAR

```
function clearView()  
{  
  var result = $('#result'); //membuat clear  
  var result1 = $('#result1'); //membuat clear  
  var result2 = $('#add'); //membuat clear  
  result.html('');  
  result1.clearQueue();  
  result1.html('');  
  result2.clearQueue();  
  result2.html('');  
}
```



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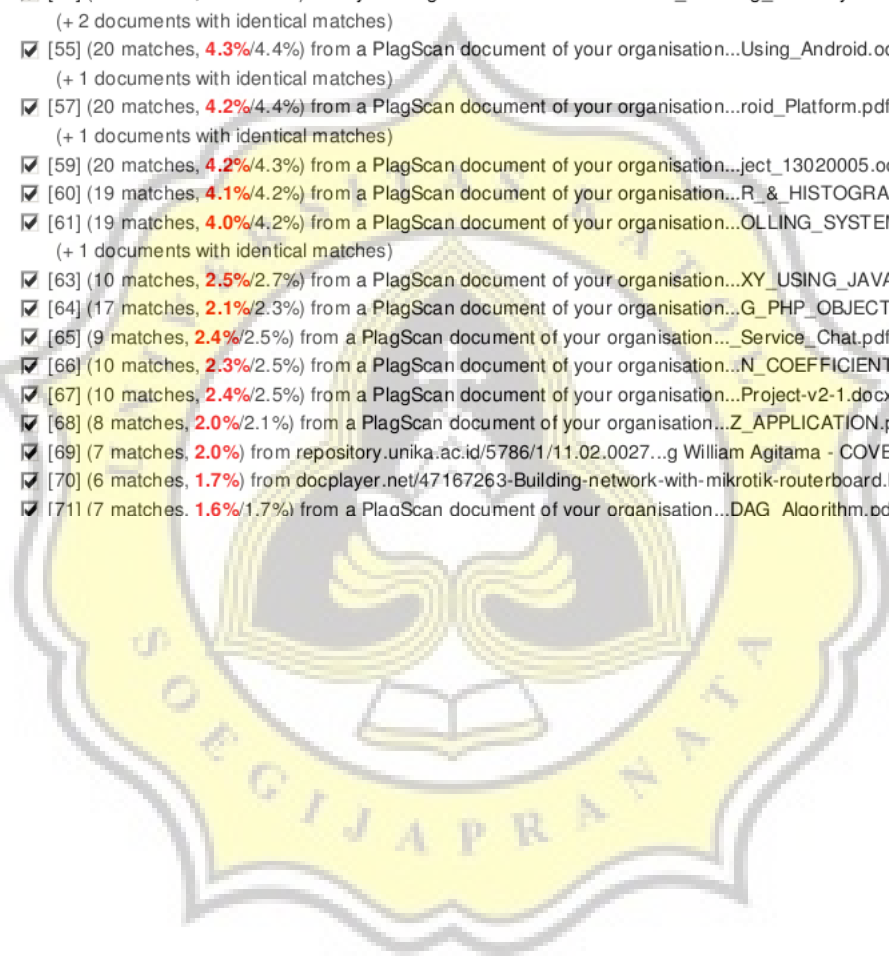
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