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## Tutorial 4e

### Javascript: *Array Objects*

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#### Objective:

The tutorial should help you to understand:

- Array object

#### Preparing the Tutorial:

1. Create a new *folder*.
2. *Download* “Tutorial 4e– Material” and place it within the created new *folder*.
3. *Extract* the *downloaded* file into the same folder.

#### Array Object:

1. Open the **T4e-1.html** file with the use of any text editor (e.g., Textpad). Complete the files with the following script. Once completed, *preview* the result in a *web browser* and try to understand how the scripts work. Pay attention to the **highlighted** text. The output should look like Figure 1.

```
<html>
  <head> <title>Arrays</title></head>

  <body>

    <table border="1" cellspacing="0">
      <tr align="center">
        <th>Product's Name</th> <th>Unit Price <br>(RM)</th> <th> Quatity</th> <th> Price
<br> (RM)</th>
      </tr>

      <script language="Javascript">
        var products = new Array("Speaker", "Head phone", "Keyboard","Mouse");
        var prices= [7,15,12,30,10]; //another format for creating array

        var qty_count=0;
        var total_unitprice=0;
        var total_price=0;

        for (var i=0; i<products.length; i++)
        {
          total_unitprice += prices[i];

          document.writeln("<tr align='right'>");
          document.writeln("<td align='left'>", products[i],"</td>",
                                "<td>", prices[i],"</td>" );
          document.writeln("<td>", ' &nbsp;','</td>");
          document.writeln("<td>", ' &nbsp;','</td>");
          document.writeln("</tr>");
        }
      </script>

      <tr align="right">
        <th colspan="2" align="right">Total </th>
        <td> <script language="javascript"> </script> </td>
```

```

        <td> <script language="javascript"> </script> </td>
    </tr>
</table>

<br>
The average of Unit Price: <b><font color="red">
<script language="javascript"> document.writeln(total_unitprice/prices.length);</script>
</font></b>
</body>
</html>

```

2. After that, complete the JavaScript to answer the following questions. The final output should look like Figure 2.

- Quantity for each product should be obtained from an array. Hint: Declare an array named quantity which contains the number of each product.
- This column is computed using the formula price = quantity \* unit\_price
- The sum of quantity of all products.
- The sum of price of all products.

Hint: Apply loop and array to calculate Question b, c and d.

Product's Name	Unit Price (RM)	Quatity	Price (RM)
Speaker	7		
Head phone	15		
Keyboard	12		
Mouse	30		
<b>Total</b>			

The average of Unit Price: **12.8**

**Figure 1: Output for Question 1**

Product's Name	Unit Price (RM)	Quantity	Price (RM)
Speaker	7	10	70
Head phone	15	30	450
Keyboard	12	25	300
Mouse	30	8	240
<b>Total</b>		73	1060

The average of Unit Price: **12.8**

**Figure 2: Output for Question 2**

## Tutorial Submission:

Place all the created files in a compressed/zipped file and submit it on the e-learning site. A dedicated submission link will be given for the submission.