Tutorial 4d

JavaScript: *Arrays*

Objective

By finishing this tutorial, you should:

- know how to use array in JavaScript
- understand the concept of array

Preparing the Tutorial's Materials

1. Create new folder
2. Download "Tutorial 4d – Material" and place it in the folder you have created before
3. Extract or unzip the file (using WinZip) into the same folder

Using Array in JavaScript

1. Open and complete file **T4d-1.html** to produce output as in Figure 1. Answer to this question is given below. When finished, preview the program in web browser and understand what the program done especially on the **bold** codes.

```html
<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>", ' ', "</td>");
                    document.writeln("<td>", ' ', "</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>
```
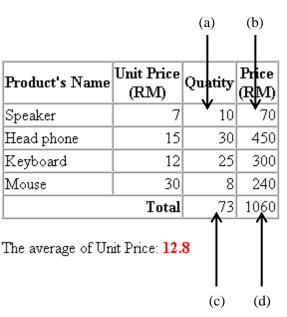
Product's Name	Unit Price (RM)	Quatity	Price (RM)
Speaker	7		
Head phone	15		
Keyboard	12		
Mouse	30		
	Total		

The average of Unit Price: **12.8**

Figure 2: Output for Question 1

(a) (b)

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

The average of Unit Price: **12.8**

(c) (d)

Figure 1: Output for Question 2

2. Next, insert codes in the same file to complete the output as shown in Figure 2.
   a. "quantity" for each product is read from array
   b. This part is calculated using the following formula: *price = quantity * unit_price*
   c. Summation of "quantity"
   d. Summation of "price"