Lab Work - WEEK 11
(25 April - 29 April 2016)

Question 1

Write a C program that,

- Declares an array of 10 elements of the type int.
- Gets 10 numbers from user and fills the array with these numbers.
- Prints each item of the array.

Question 2

Write a C program that,

- Declares an array of 7 elements of the type double,
- Gets 7 numbers from user and fills the array with these numbers.
- Calculates and prints their average.
Question 3

Write a C program that,

- Declares an array of 6 elements of the type int.
- Gets 6 numbers from user and fills the array with these numbers.
- Prints the number, its square and its cube as a table.

Sample Output:

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>16</td>
<td>64</td>
</tr>
<tr>
<td>3</td>
<td>9</td>
<td>27</td>
</tr>
<tr>
<td>10</td>
<td>100</td>
<td>1000</td>
</tr>
<tr>
<td>12</td>
<td>144</td>
<td>1728</td>
</tr>
<tr>
<td>-1</td>
<td>1</td>
<td>-1</td>
</tr>
<tr>
<td>5</td>
<td>25</td>
<td>125</td>
</tr>
</tbody>
</table>

Question 4

Write a C program that declares and initialize an array named score as follows:

```c
int score[10] = {4, 1, 5, 3, 4, 10, 9, 2, 1, 7};
```

Find the maximum value in array score.
Question 5

Write a C program that declares and initializes two arrays called Id and Grade of size 5. Id will be type int containing id numbers and Grade will be type double containing exam scores.

For example:

```c
int Id[5] = {14, 21, 315, 93, 422};
double Grade[5] = {50.7, 18.5, 42.3, 60.0, 33.5};
```

Now the user will enter an id number and the program will either print the grade corresponding to that id, or print a message "There is no such student in class."