Basic Introductory Problems

(Total 10 questions)

<table>
<tr><th>SL</th><th>Problem statement</th><th>Difficulty levels</th></tr>
<tr><td>1.</td><td>Program that will print “Hello World”.

<table><tr><th>Sample input</th><th>Sample output</th></tr><tr><td></td><td>Hello World</td></tr></table></td><td>*</td></tr>
<tr><td>2.</td><td>Program that will use newline/tab and print the following segment:

<table><tr><th>Sample input</th><th>Sample output</th></tr><tr><td></td><td>Hello World.
This is my first program. C is fun.</td></tr></table></td><td>*</td></tr>
<tr><td>3.</td><td>Program that will print the following segment:

<table><tr><th>Sample input</th><th>Sample output</th></tr><tr><td></td><td>The question is - “How to write a
\comment/ in C programming language?”</td></tr></table></td><td>*</td></tr>
<tr><td>4.</td><td>Program that will declare an integer, a floating point number, a character. Then it will initialize them with values and print those values.

<table><tr><th>Sample input</th><th>Sample output</th></tr><tr><td></td><td>The integer value: 5
The floating point value: 3.141593
The character value: a</td></tr><tr><td></td><td>The integer value: 100
The floating point value: 1.618000
The character value: z</td></tr></table></td><td>*</td></tr>
<tr><td>5.</td><td>Program that will do the followings:
a) Declare a variable uninitialized
b) Declare and initialize a variable in one statement
c) Declare and initialize multiple variables with different values in one statement
d) Declare and initialize multiple variables with the same value in one statement</td><td>*</td></tr>
</table>

6. Program that will take your age in year(s) as input and print it. *

Sample input	Sample output
20	My age is: 20
21	My age is: 21

7. Program that will receive the values of an integer, a floating point number, a character from the keyboard and print those values. *

Sample input	Sample output
5 3.141593 A	The integer value: 5 The floating point value: 3.141593 The character value: a
100 1.618 z	The integer value: 100 The floating point value: 1.618000 The character value: z

8. Program that will take three integer numbers from keyboard but assign only the first and last inputs to variables and skip any assignment of the middle one. **

Sample input	Sample output
20 50 100	First Value = 20, Last Value = 100
33 75 22	First Value = 33, Last Value = 22

9. Program that will declare a variable from each data type: double, boolean. Then it will initialize them with values and print them. *

Sample input	Sample output
	The double value: 3.140000e+00 The boolean value: 1
	The double value: 1.618039 The boolean value: 0

10. Program that will declare a variable from each data type: long int**,** long long int**,** long double, short int. Then it will initialize them with values and print them. **

Sample input	Sample output
	The long int value: 2147483647 The long long int value: 9223372036854775807 The long double value: 1.1E+4932 The short int value: 32767

			The long int value: -2,147,483,648 The long long int value: -9223372036854775808 The long double value: 3.4E-4932 The short int value: -32768	