**Basic Introductory Problems**

**(Total 10 questions)**

|  |  |  |
| --- | --- | --- |
| **SL** | **Problem statement** | **Difficulty levels** |
|  | Program that will print “Hello World”.   |  |  | | --- | --- | | **Sample input** | **Sample output** | |  | Hello World | | \* |
|  | Program that will use newline/tab and print the following segment:   |  |  | | --- | --- | | **Sample input** | **Sample output** | |  | Hello World.  This is my first program. C is fun. | | \* |
|  | Program that will print the following segment:   |  |  | | --- | --- | | **Sample input** | **Sample output** | |  | The question is - “How to write a \comment/ in C programming language?” | | \* |
|  | Program that will declare an integer, a floating point number, a character. Then it will initialize them with values and print those values.   |  |  | | --- | --- | | **Sample input** | **Sample output** | |  | The integer value: 5  The floating point value: 3.141593  The character value: a | |  | The integer value: 100  The floating point value: 1.618000  The character value: z | | \* |
|  | Program that will do the followings:   1. Declare a variable uninitialized 2. Declare and initialize a variable in one statement 3. Declare and initialize multiple variables with different values in one statement 4. Declare and initialize multiple variables with the same value in one statement | \* |
|  | 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 | | \* |
|  | 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 | | \* |
|  | 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 | | \*\* |
|  | 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 | | \* |
|  | 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 | | \*\* |