Basic Introductory Problems

(Total 15 questions)

SL	Problem statement		Difficulty levels
1.	Program that will print "Hello World".		*
	Sample input	Sample output	
		Hello World	
2.	Program that will use newline/tab and print the following segment:		
	Sample input Sample output		
	Sumple impac	Hello World.	
		This is my first program. C is fun.	
3.	Program that will print the following segment:		*
	Sample input	Sample output	
		The question is - "How to write a	
		\comment/ in C programming language?"	
4.	initialize them with values and		*
4.	1	Sample output	*
4.	initialize them with values and	Sample output The integer value: 5	*
4.	initialize them with values and	Sample output The integer value: 5 The floating point value: 3.141593	*
4.	initialize them with values and	Sample output The integer value: 5 The floating point value: 3.141593 The character value: a	*
4.	initialize them with values and	Sample output The integer value: 5 The floating point value: 3.141593 The character value: a The integer value: 100	*
4.	initialize them with values and	Sample output The integer value: 5 The floating point value: 3.141593 The character value: a	*
	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	
4. 5.	Sample input Program that will do the follow	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 follow a) Declare a variable uninit	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 follow a) Declare a variable uninit b) Declare and initialize a	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 follow a) Declare a variable uninit b) Declare and initialize as c) Declare and initialize mu	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 follow a) Declare a variable uninit b) Declare and initialize as c) Declare and initialize mu	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	

	Sample input	Sample output		
	20	My age is: 20		
	21	My age is: 21		
		1117 050 151 22		
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	The integer value: 5		
	3.141593	The floating point value: 3.141593		
	A	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		
		First Value = 20. Last Value = 100		
	20 50 100 33 75 22	First Value = 20, Last Value = 100 First Value = 33, Last Value = 22		
9.	20 50 100 33 75 22	First Value = 33, Last Value = 22 ariable from each data type: double, boolean. Then it will	*	
9.	20 50 100 33 75 22 Program that will declare a valinitialize them with values an	First Value = 33, Last Value = 22 ariable from each data type: double, boolean. Then it will d print them.	*	
9.	20 50 100 33 75 22 Program that will declare a va	First Value = 33, Last Value = 22 ariable from each data type: double, boolean. Then it will d print them. Sample output	*	
9.	20 50 100 33 75 22 Program that will declare a valinitialize them with values an	First Value = 33, Last Value = 22 ariable from each data type: double, boolean. Then it will d print them. Sample output The double value: 3.140000e+00	*	
9.	20 50 100 33 75 22 Program that will declare a valinitialize them with values an	First Value = 33, Last Value = 22 ariable from each data type: double, boolean. Then it will d print them. Sample output The double value: 3.140000e+00 The boolean value: 1	*	
9.	20 50 100 33 75 22 Program that will declare a valinitialize them with values an	First Value = 33, Last Value = 22 ariable from each data type: double, boolean. Then it will d print them. Sample output The double value: 3.140000e+00	*	
9.	20 50 100 33 75 22 Program that will declare a valinitialize them with values an	First Value = 33, Last Value = 22 ariable from each data type: double, boolean. Then it will d print them. Sample output The double value: 3.140000e+00 The boolean value: 1 The double value: 1.618039	*	
9.	20 50 100 33 75 22 Program that will declare a vainitialize them with values an Sample input Program that will declare a vainitialize them with values and sample input	First Value = 33, Last Value = 22 ariable from each data type: double, boolean. Then it will d print them. Sample output The double value: 3.140000e+00 The boolean value: 1 The double value: 1.618039	**	
	20 50 100 33 75 22 Program that will declare a vainitialize them with values an Sample input Program that will declare a vainitialize them with values and sample input	First Value = 33, Last Value = 22 ariable from each data type: double, boolean. Then it will d print them. Sample output The double value: 3.140000e+00 The boolean value: 1 The double value: 1.618039 The boolean value: 0		
	20 50 100 33 75 22 Program that will declare a vainitialize them with values an Sample input Program that will declare a vainitialize them with values and the sample input	First Value = 33, Last Value = 22 ariable from each data type: double, boolean. Then it will d print them. Sample output The double value: 3.140000e+00 The boolean value: 1 The double value: 1.618039 The boolean value: 0		
	20 50 100 33 75 22 Program that will declare a vainitialize them with values an Sample input Program that will declare a vainitialize them with values and the sample input	First Value = 33, Last Value = 22 ariable from each data type: double, boolean. Then it will d print them. Sample output The double value: 3.140000e+00 The boolean value: 1 The double value: 1.618039 The boolean value: 0 ariable from each data type: long int, long long int, long double, e them with values and print them. Sample output		
	20 50 100 33 75 22 Program that will declare a vainitialize them with values an Sample input Program that will declare a vainitialize them with values and the sample input	First Value = 33, Last Value = 22 ariable from each data type: double, boolean. Then it will d print them. Sample output The double value: 3.140000e+00 The boolean value: 1 The double value: 1.618039 The boolean value: 0 ariable from each data type: long int, long long int, long double, e them with values and print them. Sample output The long int value: 2147483647		
	20 50 100 33 75 22 Program that will declare a vainitialize them with values an Sample input Program that will declare a vainitialize them with values and the sample input	First Value = 33, Last Value = 22 ariable from each data type: double, boolean. Then it will d print them. Sample output The double value: 3.140000e+00 The boolean value: 1 The double value: 1.618039 The boolean value: 0 ariable from each data type: long int, long long int, long double, e them with values and print them. Sample output The long int value: 2147483647 The long long int value: 9223372036854775807		
	20 50 100 33 75 22 Program that will declare a vainitialize them with values an Sample input Program that will declare a vainitialize them with values and the sample input	First Value = 33, Last Value = 22 ariable from each data type: double, boolean. Then it will d print them. Sample output The double value: 3.140000e+00 The boolean value: 1 The double value: 1.618039 The boolean value: 0 ariable from each data type: long int, long long int, long double, e them with values and print them. Sample output The long int value: 2147483647 The long long int value: 9223372036854775807 The long double value: 1.1E+4932		
	20 50 100 33 75 22 Program that will declare a vainitialize them with values an Sample input Program that will declare a vainitialize them with values and the sample input	First Value = 33, Last Value = 22 ariable from each data type: double, boolean. Then it will d print them. Sample output The double value: 3.140000e+00 The boolean value: 1 The double value: 1.618039 The boolean value: 0 ariable from each data type: long int, long long int, long double, e them with values and print them. 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		
	20 50 100 33 75 22 Program that will declare a vainitialize them with values an Sample input Program that will declare a vainitialize them with values and the sample input	First Value = 33, Last Value = 22 ariable from each data type: double, boolean. Then it will d print them. Sample output The double value: 3.140000e+00 The boolean value: 1 The double value: 1.618039 The boolean value: 0 ariable from each data type: long int, long long int, long double, e them with values and print them. 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		

Program that will declare a variable from each data type: unsigned int, unsigned long int, unsigned long int, unsigned short int. Then it will initialize them with values and print			
them.			
Sample input	Sample output		
	The unsigned int value: 4294967295		
	The unsigned long int value: 4294967295		
The unsigned long long int value: 18446744073709551615 he unsigned short int value: 65,535			
The unsigned int value: 0			
	The unsigned long int value: 0		
	The unsigned long long int value: 0		
	The unsigned short int value: 0		
Program that will def	ine a constant using "CONST" and print the value.	**	
Sample input	Sample output		
	The value of pi: 3.14		
	The value of golden ratio: 1.62		
Sample input	The value of HEIGHT: 200 The value of PI: 3.14		
Program that will define a global and a local variable with the same name but with different values, and then do the following steps in order- A. Print the value of the variable before defining the local variable B. Print the value of the variable after defining the local variable C. Explicitly print the value of the variable as global			
A. Print the value B. Print the value	<u> </u>		
A. Print the value B. Print the value	<u> </u>		
A. Print the value B. Print the value C. Explicitly print	t the value of the variable as global		
A. Print the value B. Print the value C. Explicitly print	Sample output A. Global: 10 B. Local: 20		
A. Print the value B. Print the value C. Explicitly print	Sample output A. Global: 10		
A. Print the value B. Print the value C. Explicitly print	Sample output A. Global: 10 B. Local: 20		

than 2 digits)

- (c) Print the number rounded to two decimal places
- (d) Print the number rounded to integer (without using conversion or type casting)
- (e) Prints the number in exponential notation/scientific notation

Sample input	Sample output
123.098	(a) Val: 123.098000
	(b) Val:123.098000
	(c) Val:123.10
	(d) Val:123
	(e) Val: 1.230980e+02