Basic Introductory Problems

(Total 15 questions)

SL		Problem statement	Difficulty levels
1.	Program that will print "Hello W	orld".	*
	Sample input	Sample output	
		Hello World	
2.	Program that will use newline/ta	ab and print the following segment:	*
	Sample input	Sample output	
		Hello World.	
		This is my first program. C is fun.	
3.	Program that will print the follow	wing segment:	*
	Sample input	Sample output	
		The question is - "How to write a	
		\comment/ in C programming language?"	
4.	Dragram that will doclare an inte	eger, a floating point number, a character. Then it will initialize	*
4.	them with values and print thos		
	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	
5.	Program that will do the following a) Declare a variable uninition	-	*
	b) Declare and initialize a v		
	'	Itiple variables with different values in one statement	
	d) Declare and initialize mu	Itiple variables with the same value in one statement	

	Sample input	Sample output	
	20	My age is: 20	
	21	My age is: 21	
		1. 17 888 181 22	
	Program that will receive the value the keyboard and print those va	ues of an integer, a floating point number, a character from *lues.	•
	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	
	Program that will take three inte inputs to variables and <u>skip</u> any	ger numbers from keyboard but assign only the first and last	· *
	Sample input	Sample output	
	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	
•	20 50 100 33 75 22 Program that will declare a variathem with values and print then	First Value = 20, Last Value = 100 First Value = 33, Last Value = 22 ble from each data type: double, boolean. Then it will initialize *n.	¢.
•	20 50 100 33 75 22 Program that will declare a varia	First Value = 20, Last Value = 100 First Value = 33, Last Value = 22 ble from each data type: double, boolean. Then it will initialize * Sample output	¢
	20 50 100 33 75 22 Program that will declare a variathem with values and print then	First Value = 20, Last Value = 100 First Value = 33, Last Value = 22 ble from each data type: double, boolean. Then it will initialize *n. Sample output The double value: 3.140000e+00	¢
	20 50 100 33 75 22 Program that will declare a variathem with values and print then	First Value = 20, Last Value = 100 First Value = 33, Last Value = 22 ble from each data type: double, boolean. Then it will initialize *n. Sample output The double value: 3.140000e+00 The boolean value: 1	¢.
	20 50 100 33 75 22 Program that will declare a variathem with values and print then	First Value = 20, Last Value = 100 First Value = 33, Last Value = 22 ble from each data type: double, boolean. Then it will initialize *n. 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 variathem with values and print then	First Value = 20, Last Value = 100 First Value = 33, Last Value = 22 ble from each data type: double, boolean. Then it will initialize *n. Sample output The double value: 3.140000e+00 The boolean value: 1	¢
0.	20 50 100 33 75 22 Program that will declare a varia them with values and print then Sample input	First Value = 20, Last Value = 100 First Value = 33, Last Value = 22 ble from each data type: double, boolean. Then it will initialize *n. 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 variathem with values and print then Sample input Program that will declare a variation	First Value = 20, Last Value = 100 First Value = 33, Last Value = 22 ble from each data type: double, boolean. Then it will initialize *n. 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 variathem with values and print them Sample input Program that will declare a variathem with values and print them	First Value = 20, Last Value = 100 First Value = 33, Last Value = 22 ble from each data type: double, boolean. Then it will initialize *n. Sample output The double value: 3.140000e+00 The boolean value: 1 The double value: 1.618039 The boolean value: 0	

	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		
			l

11.	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	
2.	_	fine 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	
		fine a constant using "DEFINE" and print the value.	
3.	Program that will def	time a constant using DELINE and print the value.	**
3.	Program that will def Sample input	Sample output	**
3.			**
3.		Sample output	**
	Sample input	Sample output The value of HEIGHT: 200 The value of PI: 3.14	
	Sample input Program that will def	Sample output The value of HEIGHT: 200 The value of PI: 3.14 fine a global and a local variable with the same name but with different	**
	Program that will def	Sample output The value of HEIGHT: 200 The value of PI: 3.14 fine a global and a local variable with the same name but with different the following steps in order-	
	Program that will def values, and then do t A. Print the valu B. Print the valu	Sample output The value of HEIGHT: 200 The value of PI: 3.14 fine a global and a local variable with the same name but with different	
	Program that will def values, and then do t A. Print the valu B. Print the valu	Sample output The value of HEIGHT: 200 The value of PI: 3.14 fine a global and a local variable with the same name but with different the following steps in order- tie of the variable before defining the local variable the of the variable after defining the local variable	
	Program that will def values, and then do t A. Print the valu B. Print the valu C. Explicitly prin	Sample output The value of HEIGHT: 200 The value of PI: 3.14 fine a global and a local variable with the same name but with different the following steps in order- tee of the variable before defining the local variable the of the variable after defining the local variable at the value of the variable as global	

	C. Global: 10	
15	Program that will take an floating point number as input from the keyboard and use <i>printf</i> function to perform the followings:	**
	(a) Print the number right justified within 10 columns (b) Print the number to be right justified to 2 columns (Assuming the input has more 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)	

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