Basic Introductory Problems

(Total 15 questions)

SL	Problem statement		Difficulty levels	
1.	Program that will print "Hello World".		*	
	Sample input	Sample output		
	The Property of the Property o	Hello World		
2.	Program that will use newline/tab and pri	*		
	Sample input	Sample output		
		Hello World.		
		This is my first program. C is fun.		
3.	Program that will print the following segm	nent:	*	
	Sample input	Sample output		
		The question is - "How to write a		
		\comment/ in C programming language?"		
4.	Program that will declare an integer, a flo initialize them with values and print those	ating point number, a character. Then it will 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		
		The character value. 2		
5.	Program that will do the followings:		*	
	a) Declare a variable uninitialized			
	b) Declare and initialize a variable in			
	•	ables with different values in one statement ables with the same value in one statement		
	a, beclare and initialize multiple valid	ables with the same value in one statement		
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S	Sample input	Sample output	
2	20	My age is: 20	
2	21	My age is: 21	
	rogram that will receive the keyboard and print thos	e values of an integer, a floating point number, a character from e values.	*
5	Sample input	Sample output	
5	5	The integer value: 5	
3	3.141593	The floating point value: 3.141593	
	4	The character value: a	
1	100 1.618 z	The integer value: 100	
		The floating point value: 1.618000	
		The character value: z	
Pr	rogram that will take three	e integer numbers from keyboard but assign only the first and	**
la	st inputs to variables and s	skip any assignment of the middle one.	
	Sample input	Sample output	
2	20 50 100	First Value = 20, Last Value = 100	
2			
3	20 50 100 33 75 22	First Value = 20, Last Value = 100 First Value = 33, Last Value = 22	*
2 3	20 50 100 33 75 22	First Value = 20, Last Value = 100 First Value = 33, Last Value = 22 variable from each data type: double, boolean. Then it will	*
Pr in	20 50 100 33 75 22 rogram that will declare a	First Value = 20, Last Value = 100 First Value = 33, Last Value = 22 variable from each data type: double, boolean. Then it will	*
Pr in	20 50 100 33 75 22 rogram that will declare a vitialize them with values a	First Value = 20, Last Value = 100 First Value = 33, Last Value = 22 variable from each data type: double, boolean. Then it will nd print them.	*
Pr	20 50 100 33 75 22 rogram that will declare a vitialize them with values a	First Value = 20, Last Value = 100 First Value = 33, Last Value = 22 variable from each data type: double, boolean. Then it will nd print them. Sample output	*
Pr in	20 50 100 33 75 22 rogram that will declare a vitialize them with values a	First Value = 20, Last Value = 100 First Value = 33, Last Value = 22 variable from each data type: double, boolean. Then it will nd print them. Sample output The double value: 3.140000e+00	*
Pr in	20 50 100 33 75 22 rogram that will declare a vitialize them with values a	First Value = 20, Last Value = 100 First Value = 33, Last Value = 22 variable from each data type: double, boolean. Then it will nd print them. Sample output The double value: 3.140000e+00 The boolean value: 1	*
Pr	20 50 100 33 75 22 rogram that will declare a vitialize them with values a	First Value = 20, Last Value = 100 First Value = 33, Last Value = 22 variable from each data type: double, boolean. Then it will nd print them. Sample output The double value: 3.140000e+00 The boolean value: 1 The double value: 1.618039	*
Pr in	20 50 100 33 75 22 Togram that will declare a vitalize them with values a sample input	First Value = 20, Last Value = 100 First Value = 33, Last Value = 22 variable from each data type: double, boolean. Then it will nd print them. Sample output The double value: 3.140000e+00 The boolean value: 1 The double value: 1.618039 The boolean value: 0	
Pr in S	rogram that will declare a vitialize them with values a sample input	First Value = 20, Last Value = 100 First Value = 33, Last Value = 22 variable from each data type: double, boolean. Then it will nd print them. Sample output The double value: 3.140000e+00 The boolean value: 1 The double value: 1.618039	
Pr in S	rogram that will declare a vitialize them with values a sample input	First Value = 20, Last Value = 100 First Value = 33, Last Value = 22 variable from each data type: double, boolean. Then it will nd print them. Sample output The double value: 3.140000e+00 The boolean value: 1 The double value: 1.618039 The boolean value: 0	**
Pr in S	rogram that will declare a vitialize them with values a sample input	First Value = 20, Last Value = 100 First Value = 33, Last Value = 22 variable from each data type: double, boolean. Then it will nd print them. Sample output The double value: 3.140000e+00 The boolean value: 1 The double value: 1.618039 The boolean value: 0	
Pr in Sh	rogram that will declare a vitialize them with values a sample input	First Value = 20, Last Value = 100 First Value = 33, Last Value = 22 variable from each data type: double, boolean. Then it will nd print them. Sample output The double value: 3.140000e+00 The boolean value: 1 The double value: 1.618039 The boolean value: 0	
Pr in S	rogram that will declare a vitialize them with values a sample input	First Value = 20, Last Value = 100 First Value = 33, Last Value = 22 variable from each data type: double, boolean. Then it will nd print them. Sample output The double value: 3.140000e+00 The boolean value: 1 The double value: 1.618039 The boolean value: 0 variable from each data type: long int, long long int, long double, we them with values and print them. Sample output The long int value: 2147483647	

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		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	
•	•	are a variable from each data type: unsigned int, unsigned long int, unsigned short int. Then it will initialize them with values and print	**
	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	
		The value of ni: 3.14	
		The value of pi: 3.14 The value of golden ratio: 1.62	
•	Program that will defin	·	**
•	Program that will define Sample input	The value of golden ratio: 1.62	**
•	_	The value of golden ratio: 1.62 ne a constant using "DEFINE" and print the value.	**
•	_	The value of golden ratio: 1.62 ne a constant using "DEFINE" and print the value. Sample output	**
	Program that will define values, and then do the A. Print the value	The value of golden ratio: 1.62 ne a constant using "DEFINE" and print the value. Sample output The value of HEIGHT: 200 The value of PI: 3.14 ne a global and a local variable with the same name but with different ne following steps in order- of the variable before defining the local variable	**
	Program that will define values, and then do the A. Print the value B. Print the value	The value of golden ratio: 1.62 ne a constant using "DEFINE" and print the value. Sample output The value of HEIGHT: 200 The value of PI: 3.14 ne a global and a local variable with the same name but with different ne following steps in order-	
•	Program that will define values, and then do the A. Print the value B. Print the value	The value of golden ratio: 1.62 ne a constant using "DEFINE" and print the value. Sample output The value of HEIGHT: 200 The value of PI: 3.14 ne a global and a local variable with the same name but with different the following steps in order- of the variable before defining the local variable of the variable after defining the local variable the value of the variable as global Sample output Sample output	
	Program that will define values, and then do the A. Print the value B. Print the value C. Explicitly print	The value of golden ratio: 1.62 ne a constant using "DEFINE" and print the value. Sample output The value of HEIGHT: 200 The value of PI: 3.14 ne a global and a local variable with the same name but with different per following steps in order- of the variable before defining the local variable per of the variable after defining the local variable the value of the variable as global Sample output A. Global: 10	
	Program that will define values, and then do the A. Print the value B. Print the value C. Explicitly print	The value of golden ratio: 1.62 ne a constant using "DEFINE" and print the value. Sample output The value of HEIGHT: 200 The value of PI: 3.14 ne a global and a local variable with the same name but with different the following steps in order- of the variable before defining the local variable of the variable after defining the local variable the value of the variable as global Sample output Sample output	

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) Detail the seconds	d to integer (without using conversion or type casting)	
(a) Print the number round	ded to integer (without using conversion or type casting)	
1	ponential notation/scientific notation	
(e) Prints the number in ex		
1		
(e) Prints the number in ex	ponential notation/scientific notation	
(e) Prints the number in ex	ponential notation/scientific notation Sample output	
(e) Prints the number in ex	Sample output (a) Val: 123.098000	
(e) Prints the number in ex	Sample output (a) Val: 123.098000 (b) Val:123.098000	