Basic Introductory Problems

(Total 15 questions)

SL	Proble	m 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	t the following segment:	*
	Sample input	Sample output	
		Hello World.	
		This is my first program. C is fun.	
3.	Program that will print the following segme	ent:	*
	Sample input	Sample output	
		The question is - "How to write a	
		\comment/ in C programming language?"	
4.	Program that will declare an integer, a float initialize them with values and print those v		*
	Sample input	Sample output	
		The integer value: 5	
		The floating point value: 3.141593	
		The character value: a	
		The floating point value: 1 618000	
		The floating point value: 1.618000 The character value: z	
	<u> </u>	THE CHARACTE VALACT 2	
5.	Program that will do the followings:		*
J .	a) Declare a variable uninitialized		
	b) Declare and initialize a variable in o	ne statement	
	c) Declare and initialize multiple variab	oles with different values in one statement	
	d) Declare and initialize multiple variab	ples with the same value in one statement	

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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 - 3 -	
7.	Program that will receive the value the keyboard and print those value	es of an integer, a floating point number, a character from	*
	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	
	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 initialize them with values and prin	e from each data type: double, boolean. Then it will it them.	*
	Sample input	Sample output	
	I I	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	n 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	
11.	Program that will declare a variable from each data type: unsigned int, unsigned long int, unsigned long 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 int value: 0	
		The unsigned long long int value: 0	
		The unsigned short int value: 0	
	Decree of the College	"CONCT" and a death of a	**
12.	Program that will defin	e a constant using "CONST" and print the value.	**
12.	Sample input	Sample output	
		The value of pi: 3.14	
		The value of golden ratio: 1.62	
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13.	Program that will defin	e a constant using "DEFINE" and print the value.	
	Sample input	Sample output	
		The value of HEIGHT: 200	
		The value of PI: 3.14	
14.		e a global and a local variable with the same name but with different e following steps in order-	**
		of the variable before defining the local variable	
		of the variable after defining the local variable	
	C. Explicitly print t	he value of the variable as global	
	Sample input	Sample output	
		A. Global: 10	
		B. Local: 20	
		C. Global: 10	

Program that will take an floa	ting point number as input from the keyboard and use <i>printf</i>	**
function to perform the follow	vings:	
(a) Print the number right	justified within 10 columns	
(b) Print the number to be than 2 digits)	e right justified to 2 columns (Assuming the input has more	
(c) Print the number rour	ded to two decimal places	
• •	ded to two decimal places ded to integer (without using conversion or type casting)	
(d) Print the number rour	•	
(d) Print the number rour	ded to integer (without using conversion or type casting)	
(d) Print the number rour	ded to integer (without using conversion or type casting)	
(d) Print the number rour (e) Prints the number in e	ded to integer (without using conversion or type casting) xponential notation/scientific notation	
(d) Print the number rour (e) Prints the number in e	ded to integer (without using conversion or type casting) xponential notation/scientific notation Sample output	
(d) Print the number rour (e) Prints the number in e	ded to integer (without using conversion or type casting) xponential notation/scientific notation Sample output (a) Val: 123.098000	
(d) Print the number rour (e) Prints the number in e	ded to integer (without using conversion or type casting) xponential notation/scientific notation Sample output (a) Val: 123.098000 (b) Val:123.098000	