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		
		Hello World.		
		This is my first program. C is fun.		
3.	Program that will print the following se	gment:	*	
	Sample input	Sample output		
		The question is - "How to write a		
		\comment/ in C programming language?"		
4.	Program that will declare an integer, a finitialize them with values and print the	floating point number, a character. Then it will ose 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		
5.	Program that will do the followings:		*	
	a) Declare a variable uninitialized			
	b) Declare and initialize a variable in one statementc) Declare and initialize multiple variables with different values in one statement			
		ariables with the same value in one statement		
			1	

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6.	Program that will take your age in	vear(s) as	innut and print it	*
J.	The same that the same your age in	, (5, 45	h and an interest to	
	Sample input		Sample output	
	20		My age is: 20	
	21		My age is: 21	
			, ,	
7.	Program that will receive the value	s of an int	teger, a floating point number, a character from	*
	the keyboard and print those value	es.		
	Sample input		Sample output	
	5		The integer value: 5	
	3.141593		The floating point value: 3.141593	
	а		The character value: a	
	100 1.618 z		The integer value: 100	
			The floating point value: 1.618000	
			The character value: z	
				ale ale
8.			s from keyboard but assign only the first and last	**
	inputs to variables and skip any ass	signment (of the middle one.	
	Commission of		Commis autuut	
	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	o from oad	ch data type: double , becleen . Then it will	*
э.	initialize them with values and prin		cii data type. dodbie, to beat. Then it will	
	initialize them with values and prin	it tileili.		
	Sample input		Sample output	
	(1)	<u>ורר</u>	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	e from ead	ch data type: long int, long long int, long double,	**
	short int. Then it will initialize then			
	Sample input	Sample	output	
		The long	; int value: 2147483647	
		The long	; long int value: 9223372036854775807	
		The long	double value: 1.1E+4932	
		The shor	rt 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	
		The short me value. 32700	
11.	Program that will declare a	variable from each data type: unsigned int, unsigned long int,	**
		igned short int. Then it will initialize them with values and print	
	them.	Consideration 1	
	Sample input	Sample output The unsigned int value: 4294967295	
		The unsigned 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 define a	constant using "CONST" and print the value.	**
12.	riogiani that will define 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	
			1
13.	Program that will define a	constant using "DEFINE" and print the value.	**
	Sample input	Sample output	
		The value of HEIGHT: 200	
		The value of PI: 3.14	
4.5	D	alabata ada tanat a gabi. But ut	**
14.	Program that will define a values, and then do the fol	global and a local variable with the same name but with different	7.7
		ne variable before defining the local variable	
		ne variable after defining the local variable	
		value of the variable as global	
	C. Explicitly print the	raide of the variable as global	
	Sample input	Sample output	
		A. Global: 10	
		B. Local: 20	
		C. Global: 10	

- 1	Program that will take an floating point nufunction to perform the followings:	mber as input from the keyboard and use <i>printf</i>	**
	(a) Print the number right justified wit	hin 10 columns	
		ed 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)		
	(e) Prints the number in exponential notation/scientific notation		
- []	Sample input	Sample output	
-	123.098	(a) Val: 123.098000	
	123.030	1 ` '	
	123.030	(b) Val:123.098000	
	123.030	(b) Val:123.098000 (c) Val:123.10	
	123.030	(b) Val:123.098000	