Operator Related Problems

(Total 15 questions)

SL		Problem statement	Difficulty levels
1.	Program that will take two numbers X and Y as inputs, then calculate and print the values of their addition, subtraction, multiplication, division (quotient and reminder).		
	Sample input (X,Y)	Sample output	
	5 10	Addition: 15 Subtraction: -5 Multiplication: 50 Quotient: 0	
		Reminder: 5	
	-5 10.5	Addition: 5.5 Subtraction: -15.5 Multiplication: -52.5 Quotient: 0 Reminder: -48	
2.		rcumference of a circle having radius r. Area, A = 2 * Pi * r	*
2.	Sample input (r)	Area, A = 2 * Pi * r Sample output	*
2.		Area, A = 2 * Pi * r	*
2.	Sample input (r) 5 10.5 Program that will take two numb – (Without using math.h)	Area, A = 2 * Pi * r Sample output Area: 31.4	*
	Sample input (r) 5 10.5 Program that will take two numb – (Without using math.h) X = (3.31 *	Area, A = 2 * Pi * r Sample output	
	Sample input (r) 5 10.5 Program that will take two numb – (Without using math.h) X = (3.31 * Sample input (a, b)	Area, A = 2 * Pi * r Sample output Area: 31.4 Area: 65.94 ers (a, b) as inputs and compute the value of the equation $a^2 + 2.01 * b^3) / (7.16 * b^2 + 2.01 * a^3)$ Sample output	
	Sample input (r) 5 10.5 Program that will take two numb – (Without using math.h) X = (3.31 *	Area, A = 2 * Pi * r Sample output	

Program that will incr (Use ++ and operat	ors)	
Sample input(X)	Sample output	
5	X++: 5	
	++X: 6	
	X: 5	
	X : 4	
-5	X++: -5	
	++X: -4	
	X : -5	
	X : -6	
Program that will increment and decrement a number X by Y . (Use += and -= operators)		*
Sample input(X,Y)	Sample output	
5 10	Incremented Value: 10	
	Decremented Value: -5	
-5 5	Incremented Value: 0	
	Incremented Value: 0 Decremented Value: -10 tiply and divide a number X by Y . (Use *= and /= operators)	*
Program that will mul	tiply and divide a number X by Y . (Use *= and /= operators) Sample output	*
Program that will mul	tiply and divide a number X by Y. (Use *= and /= operators) Sample output Multiplication: 560	*
Program that will mul Sample input(X,Y) 56 10	tiply and divide a number X by Y. (Use *= and /= operators) Sample output Multiplication: 560 Division: 5	*
Program that will mul	tiply and divide a number X by Y. (Use *= and /= operators) Sample output Multiplication: 560 Division: 5 Multiplication: 560	*
Program that will mul Sample input(X,Y) 56 10	tiply and divide a number X by Y. (Use *= and /= operators) Sample output Multiplication: 560 Division: 5	*
Program that will multiple sample input(X,Y) 56 10 -56 -10	tiply and divide a number X by Y. (Use *= and /= operators) Sample output Multiplication: 560 Division: 5 Multiplication: 560	**
Program that will multiple sample input(X,Y) 56 10 -56 -10 Program that will dec	tiply and divide a number X by Y. (Use *= and /= operators) Sample output Multiplication: 560 Division: 5 Multiplication: 560 Division: 5	
Program that will multiple sample input(X,Y) 56 10 -56 -10 Program that will dec	tiply and divide a number X by Y. (Use *= and /= operators) Sample output	
Program that will multiple sample input(X,Y) 56 10 -56 -10 Program that will decoperform floating to in	tiply and divide a number X by Y. (Use *= and /= operators) Sample output	
Program that will multiple Sample input(X,Y) 56 10 -56 -10 Program that will decemperform floating to in (a) Assignment on (b) Type casting Sample input	tiply and divide a number X by Y. (Use *= and /= operators) Sample output	
Program that will multiple sample input(X,Y) 56 10 -56 -10 Program that will december perform floating to in (a) Assignment on (b) Type casting	tiply and divide a number X by Y. (Use *= and /= operators) Sample output	
Program that will multiple Sample input(X,Y) 56 10 -56 -10 Program that will decemperform floating to in (a) Assignment on (b) Type casting Sample input	tiply and divide a number X by Y. (Use *= and /= operators) Sample output	
Program that will multiple Sample input(X,Y) 56 10 -56 -10 Program that will decemperform floating to in (a) Assignment on (b) Type casting Sample input	tiply and divide a number X by Y. (Use *= and /= operators) Sample output	

	Program that will take two number conditional operator - ?)	ers as inputs and print the maximum value. (Using	**	
	Sample input (x, y)	Sample output		
	20 100	Max: 100		
	50 -20	Max: 50		
9.	Program that will evaluate the fol	= -	*	
	X = a - b / 3 + c * 2 - 1			
		′ = a – (b / (3 + c) * 2) - 1 Z = a – ((b / 3) + c * 2) - 1		
	Sample input (a, b, c)	Sample output		
	9 12 3	X = 10		
		Y = 4		
		Z = -1		
		,		
10.	Program that will take a , b & c as (0)	inputs and decide if the statements are True (1) of False a) b) c)	**	
	Sample input (a, b, c)	Sample output		
	10 -10 0	a) 1		
		b) 0		
		c) 1		
l 1 .	Program that will take a , b & c as (0)	inputs and decide if the statements are True (1) of False 1)	***	
		2) 3)		
	Sample input (a, b, c)	Sample output		
	10 -10 0	1) 0 2) 1 3) 1		

Sample input (a, b, c)	Sample output		
2 4 -16	2.00 -4.00		
1 2 3	Imaginary		
Program that will evaluate	the equation	***	
; where 1<= x <=180 [No checking needed]			
Sample input (x)	Sample output		
30	1.810066		
120	0.778151		
180	3.954243		
Program that will take a flo			
i Fiograffi tilat will take a fio	ating point number X as input and evaluate A,B,C where-	**	
_	eating point number X as input and evaluate A,B,C where- e when X is rounded up to the nearest integer	**	
A = Value	- ·	**	
A = Value B = Value	e when X is rounded up to the nearest integer	**	
A = Value B = Value	e when X is rounded up to the nearest integer e when X is rounded down to the nearest integer	**	
A = Value B = Value C = Abso	e when X is rounded up to the nearest integer e when X is rounded down to the nearest integer slute value of X Sample output A = 11, B = 10, C = 10.6	**	
A = Value B = Value C = Abso Sample input(X)	e when X is rounded up to the nearest integer e when X is rounded down to the nearest integer lute value of X Sample output	**	
A = Value B = Value C = Abso Sample input(X) 10.6 -77.9	e when X is rounded up to the nearest integer e when X is rounded down to the nearest integer slute value of X Sample output A = 11, B = 10, C = 10.6	**	
A = Value B = Value C = Abso Sample input(X) 10.6 -77.9	e when X is rounded up to the nearest integer e when X is rounded down to the nearest integer blute value of X Sample output A = 11, B = 10, C = 10.6 A = 78, B = 77, C = 77.9		
A = Value B = Value C = Abso Sample input(X) 10.6 -77.9 Program to find size of int,	e when X is rounded up to the nearest integer e when X is rounded down to the nearest integer blute value of X Sample output A = 11, B = 10, C = 10.6 A = 78, B = 77, C = 77.9 float, double and char of the system.		
A = Value B = Value C = Abso Sample input(X) 10.6 -77.9 Program to find size of int,	e when X is rounded up to the nearest integer e when X is rounded down to the nearest integer blute value of X Sample output A = 11, B = 10, C = 10.6 A = 78, B = 77, C = 77.9 float, double and char of the system. Sample output		
A = Value B = Value C = Abso Sample input(X) 10.6 -77.9 Program to find size of int,	e when X is rounded up to the nearest integer e when X is rounded down to the nearest integer blute value of X Sample output A = 11, B = 10, C = 10.6 A = 78, B = 77, C = 77.9 float, double and char of the system. Sample output Size of int in byte(s) = 4		