Operator Related Problems

(Total 15 questions)

L		Problem statement	Difficult levels
1.	_	pers X and Y as inputs, then calculate and print the values ultiplication, division (quotient and reminder).	*
	Sample input (X,Y)	Sample output	<u> </u>
	5 10	Addition: 15 Subtraction: -5 -14 % 3 = -2 -14 % -3 = -2	
		Multiplication: 50 Quotient: 0	
		Reminder: 5	
	-5 10.5	Addition: 5.5	
		Subtraction: -15.5	
		Multiplication: -52.5	
		Quotient: 0	
	1.1	Reminder: -48	
			*
·-	Program that will calculate the ci	rcumference of a circle having radius r. Area, A = 2 * Pi * r	*
	Program that will calculate the ci	rcumference of a circle having radius r.	*
•		rcumference of a circle having radius r. Area, A = 2 * Pi * r	*
•	Sample input (r)	rcumference of a circle having radius r. Area, A = 2 * Pi * r Sample output	*
	Sample input (r) 5 10.5 Program that will take two numb – (Without using math.h)	rcumference of a circle having radius r. 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 *	rcumference of a circle having radius r. Area, A = 2 * Pi * r Sample output Area: 31.4 Area: 65.94 Deers (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 input (r) 5 10.5 Program that will take two numb – (Without using math.h) X = (3.31 * Sample input (a, b)	rcumference of a circle having radius r. Area, A = 2 * Pi * r Sample output Area: 31.4 Area: 65.94 pers (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 *	rcumference of a circle having radius r. Area, A = 2 * Pi * r Sample output Area: 31.4 Area: 65.94 Deers (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		
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		
	Decremented Value: -10		
_	Iltiply and divide a number X by Y. (Use *= and /= operators)	*	
Sample input(X,Y) 56 10	Sample output Multiplication: 560 Division: 5	*	
Sample input(X,Y)	Sample output Multiplication: 560 Division: 5 Multiplication: 560	*	
Sample input(X,Y) 56 10	Sample output Multiplication: 560 Division: 5	*	
Sample input(X,Y) 56 10 -56 -10 Program that will decomposite to the sample input(X,Y)	Sample output Multiplication: 560 Division: 5 Multiplication: 560 Division: 5 Clare and initialize an integer and a floating point number. Then it will integer and integer to floating conversions using	**	
Sample input(X,Y) 56 10 -56 -10 Program that will deeperform floating to in (a) Assignment of (b) Type casting Sample input	Sample output Multiplication: 560 Division: 5 Multiplication: 560 Division: 5 Clare and initialize an integer and a floating point number. Then it will nteger and integer to floating conversions using operation Sample output		
Sample input(X,Y) 56 10 -56 -10 Program that will deeperform floating to in (a) Assignment of (b) Type casting	Sample output Multiplication: 560 Division: 5 Multiplication: 560 Division: 5 Clare and initialize an integer and a floating point number. Then it will integer and integer to floating conversions using operation Sample output Assignment: 123.125000 assigned to an int produces 123		
Sample input(X,Y) 56 10 -56 -10 Program that will deeperform floating to in (a) Assignment of (b) Type casting Sample input	Sample output Multiplication: 560 Division: 5 Multiplication: 560 Division: 5 Clare and initialize an integer and a floating point number. Then it will nateger and integer to floating conversions using operation Sample output Assignment: 123.125000 assigned to an int produces 123 Assignment: -150 assigned to a float produces -150.000000		
Sample input(X,Y) 56 10 -56 -10 Program that will deeperform floating to in (a) Assignment of (b) Type casting Sample input	Sample output Multiplication: 560 Division: 5 Multiplication: 560 Division: 5 Clare and initialize an integer and a floating point number. Then it will nteger and integer to floating conversions using peration Sample output Assignment: 123.125000 assigned to an int produces 123 Assignment: -150 assigned to a float produces -150.000000 Type Casting: (float) -150 produces -150.000000		
Sample input(X,Y) 56 10 -56 -10 Program that will deeperform floating to in (a) Assignment of (b) Type casting Sample input	Sample output Multiplication: 560 Division: 5 Multiplication: 560 Division: 5 Clare and initialize an integer and a floating point number. Then it will nateger and integer to floating conversions using operation Sample output Assignment: 123.125000 assigned to an int produces 123 Assignment: -150 assigned to a float produces -150.000000		

Comple inc. + /\	Comple autout		
Sample input (x, y)	Sample output		
20 100	Max: 100		
50 -20	Max: 50		
Program that will evaluate the fol	lowing equations -	*	
X = a - b / 3 + c * 2 - 1			
	Z = 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		
Program that will take a , b & c as inputs and decide if the statements are True (1) of False (0) $ a) (a+b) \leq 80 $ $ b) ! \ (a+c) $			
	c) a! = 0		
Sample input (a, b, c)	Sample output		
10 -10 0	a) 1		
	b) 0 c) 1		
	5, 1		
Program that will take a , b & c as (0)	inputs and decide if the statements are True (1) of False	***	
1) $(a+b) \le 80 \&\& b \ge 0$			
	2) $(a - b) == 0 c! = 0$ a! = b (b < a) &&c > 0		
Sample input (a, b, c)	Sample output		
10 -10 0	1) 0		
1 1	2) 1		
	3) 1		

1		
$root = \frac{-b \pm sqrt(b^2 + a)}{2.a}$	<u>- 4. a. c)</u>	
2. d		
Sample input (a, b, c)	Sample output	
2 4 -16	2.00 -4.00	
1 2 3	Imaginary	
Program that will evaluate $2\cos^2 x - \sqrt{3}\sin x + \sin x$		***
	where 1<= x <=180 [No checking needed]	
Sample input (x)	Sample output	
30	1.810066	
120	0.778151	
120 180 Program that will take a flo	0.778151 3.954243 Dating point number X as input and evaluate A,B,C where-	**
120 180 Program that will take a flo A = Valu B = Valu	0.778151 3.954243	**
Program that will take a flo A = Valu B = Valu C = Abso	0.778151 3.954243 Dating point number X as input and evaluate A,B,C where- ue when X is rounded up to the nearest integer ue when X is rounded down to the nearest integer blute value of X	**
120 180 Program that will take a flo A = Valu B = Valu	0.778151 3.954243 Dating point number X as input and evaluate A,B,C wherewhen X is rounded up to the nearest integer lie when X is rounded down to the nearest integer	**
120 180 Program that will take a flo A = Valu B = Valu C = Abso Sample input(X)	0.778151 3.954243 Dating point number X as input and evaluate A,B,C wherele when X is rounded up to the nearest integer as when X is rounded down to the nearest integer plute value of X Sample output	**
120 180 Program that will take a flood A = Value B = Value C = Absolution 10.6 -77.9	0.778151 3.954243 Dating point number X as input and evaluate A,B,C wherele when X is rounded up to the nearest integer are when X is rounded down to the nearest integer plute value of X Sample output A = 11, B = 10, C = 10.6	**
120 180 Program that will take a flood A = Value B = Value C = Absolution 10.6 -77.9	0.778151 3.954243 Dating point number X as input and evaluate A,B,C wherele when X is rounded up to the nearest integer le when X is rounded down to the nearest integer plute value of X Sample output A = 11, B = 10, C = 10.6 A = 78, B = 77, C = 77.9	
Program that will take a flow A = Value B = Value C = Absolution Sample input(X) 10.6 -77.9 Program to find size of int,	0.778151 3.954243 Deating point number X as input and evaluate A,B,C wheresee when X is rounded up to the nearest integer to the when X is rounded down to the nearest integer colute value of X Sample output A = 11, B = 10, C = 10.6 A = 78, B = 77, C = 77.9 If loat, double and char of the system.	
Program that will take a flow A = Value B = Value C = Absolution Sample input(X) 10.6 -77.9 Program to find size of int,	0.778151 3.954243 Doating point number X as input and evaluate A,B,C wherele when X is rounded up to the nearest integer are when X is rounded down to the nearest integer polute value of X Sample output A = 11, B = 10, C = 10.6 A = 78, B = 77, C = 77.9 If loat, double and char of the system. Sample output	
Program that will take a flow A = Value B = Value C = Absolution Sample input(X) 10.6 -77.9 Program to find size of int,	0.778151 3.954243 Doating point number X as input and evaluate A,B,C wherele when X is rounded up to the nearest integer are when X is rounded down to the nearest integer colute value of X Sample output	