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	
	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	
		Reminder: -48	1
	Due grows that will sale data the si		*
	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 $a^2 + 2.01 * b^3) / (7.16 * b^2 + 2.01 * a^3)$	
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	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	

	e 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	e input(X,Y)	Sample output	
5 10		Incremented Value: 10	
		Decremented Value: -5	
-5 5		Incremented Value: 0	
		Decremented Value: -10	
	e input(X,Y) 10	Sample output Multiplication: 560 Division: 5	
-56	-10	Multiplication: 560	
-56	-10	Multiplication: 560 Division: 5	
Program perform (a) /	n that will dec	Division: 5 clare and initialize an integer and a floating point number. Then it will nteger and integer to floating conversions using	**
Program perform (a) /	n that will ded I floating to ir Assignment o Type casting	Division: 5 clare and initialize an integer and a floating point number. Then it will nteger and integer to floating conversions using	**
Program perform (a) / (b) -	n that will ded I floating to ir Assignment o Type casting	Division: 5 clare and initialize an integer and a floating point number. Then it will nteger and integer to floating conversions using peration	**
Program perform (a) / (b) -	n that will dec of floating to in Assignment o Type casting	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	**
Program perform (a) / (b) -	n that will dec of floating to in Assignment o Type casting	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	**
Program perform (a) / (b) -	n that will dec of floating to in Assignment o Type casting	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	**

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

$\mathbf{root} = \frac{-\mathbf{b} \pm \mathbf{sqrt}(\mathbf{b})}{2.\mathbf{a}}$	$\frac{(a^2-4.a.c)}{(a^2-4.a.c)}$		
	Sample output		
Sample input (a, b, c) 2 4 -16	2.00 -4.00		
1 2 3	Imaginary		
Program that will evaluate $2 \cos^2 x - \sqrt{3} \sin x + \frac{1}{2} \cos^2 x + \frac{1}{2} \cos^2 x + \frac{1}{2} \sin x + \frac{1}{2} \cos^2 x + \frac{1}{2} \sin x + \frac{1}{2} \cos^2 x + \frac{1}{2} \sin^2 x + \frac{1}{2} \cos^2 x + \frac{1}{2} \sin^2 x + \frac{1}{2} \cos^2 x + \frac{1}{2} \cos^2 x + \frac{1}{2} \sin^2 x + \frac{1}{2} \cos^2 x + \frac{1}{2} \cos^2 x + \frac{1}{2} \sin^2 x + \frac{1}{2} \cos^2 x + $	·	***	
	; where 1<= x <=180 [No checking needed]		
Sample input (x)	Sample output		
	1.810066		
30	1.810066 0.778151		
	1.810066 0.778151 3.954243		
30 120 180 Program that will take a A = V B = V	0.778151	**	
30 120 180 Program that will take a A = V B = V C = A	0.778151 3.954243 floating point number X as input and evaluate A,B,C where-alue when X is rounded up to the nearest integer alue when X is rounded down to the nearest integer bsolute value of X	**	
30 120 180 Program that will take a A = V B = V C = A	0.778151 3.954243 floating point number X as input and evaluate A,B,C where-alue when X is rounded up to the nearest integer alue when X is rounded down to the nearest integer bsolute value of X Sample output	**	
30 120 180 Program that will take a A = V B = V C = A Sample input(X) 10.6	0.778151 3.954243 floating point number X as input and evaluate A,B,C where-alue when X is rounded up to the nearest integer alue when X is rounded down to the nearest integer bsolute value of X Sample output A = 11, B = 10, C = 10.6	**	
30 120 180 Program that will take a A = V B = V C = A	0.778151 3.954243 floating point number X as input and evaluate A,B,C where-alue when X is rounded up to the nearest integer alue when X is rounded down to the nearest integer bsolute value of X Sample output	**	
30 120 180 Program that will take a A = V B = V C = A Sample input(X) 10.6 -77.9	0.778151 3.954243 floating point number X as input and evaluate A,B,C where-alue when X is rounded up to the nearest integer alue when X is rounded down to the nearest integer bsolute value of X Sample output A = 11, B = 10, C = 10.6	**	
30 120 180 Program that will take a A = V B = V C = A Sample input(X) 10.6 -77.9	0.778151 3.954243 floating point number X as input and evaluate A,B,C wherealue when X is rounded up to the nearest integer alue when X is rounded down to the nearest integer bsolute value of X Sample output A = 11, B = 10, C = 10.6 A = 78, B = 77, C = 77.9		
30 120 180 Program that will take a A = V B = V C = A Sample input(X) 10.6 -77.9 Program to find size of i	0.778151 3.954243 floating point number X as input and evaluate A,B,C wherealue when X is rounded up to the nearest integer alue when X is rounded down to the nearest integer bsolute value of X Sample output A = 11, B = 10, C = 10.6 A = 78, B = 77, C = 77.9 nt, float, double and char of the system.		
30 120 180 Program that will take a A = V B = V C = A Sample input(X) 10.6 -77.9 Program to find size of i	0.778151 3.954243 floating point number X as input and evaluate A,B,C where-alue when X is rounded up to the nearest integer alue when X is rounded down to the nearest integer bsolute value of X Sample output A = 11, B = 10, C = 10.6 A = 78, B = 77, C = 77.9 nt, float, double and char of the system. Sample output		
30 120 180 Program that will take a A = V B = V C = A Sample input(X) 10.6 -77.9 Program to find size of i	floating point number X as input and evaluate A,B,C where- alue when X is rounded up to the nearest integer alue when X is rounded down to the nearest integer bsolute value of X Sample output A = 11, B = 10, C = 10.6 A = 78, B = 77, C = 77.9 nt, float, double and char of the system. Sample output Size of int in byte(s) = 4		