Operator Related Problems

(Total 15 questions)

2.	Sample input 100 -11.11 0 Program that will decide with the sample input 100 -11.11		Sample output Positive Negative Positive	*
2.	100 -11.11 0	whether a number i	Positive Negative	
2.	100 -11.11 0	whether a number i	Positive Negative	
2.	-11.11 0	whether a number i	Negative	
2.	0	whether a number i		
2.	Program that will decide	whether a number i		
2.	Program that will decide	whether a number i		
			s even or odd.	*
	Sample input		Sample output	
	50		Even	
	-77		Odd	
	0		Even	
	in English. Sample input	Sample output		
	9	nine		
	0	zero		
4.	should be such that, 0 < v	alue < 180) of the to	valid or not, when the three angles (angle value riangle are entered through the keyboard. hree angles is equal to 180 degrees.]	*
		the sam of all the t		
	Sample input		Sample output	
	90 45 45		Yes	
	30 110 40		Yes	
	160 20 30		No No	
	0 180 0		No	

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Sample input	Sample output	
1	Yes	
512	Yes	
1022	No	
I -	e console a random number and check if it is a nonzero s yes, it will determine if the number is a power of 2.	***
· -	will check for two more cases. If the number is zero, the a valid input". Else it will print "Negative input is not valid".	
Sample input	Sample output	
0	Zero is not a valid input	
1	Yes	
F12	Yes	
11 212		
512 1022		
1022 -512	No Negative input is not valid mbers X & Y as inputs and decide whether X is greater	*
Program that will take two nur than/less than/equal to Y.	No Negative input is not valid mbers X & Y as inputs and decide whether X is greater	*
1022 -512 Program that will take two nur than/less than/equal to Y. Sample input (X,Y)	No Negative input is not valid mbers X & Y as inputs and decide whether X is greater Sample output	*
Program that will take two nur than/less than/equal to Y. Sample input (X,Y) 5 -10	No Negative input is not valid mbers X & Y as inputs and decide whether X is greater Sample output 5 is greater than -10	*
Program that will take two nur than/less than/equal to Y. Sample input (X,Y) 5 -10 5 10	No Negative input is not valid mbers X & Y as inputs and decide whether X is greater Sample output 5 is greater than -10 5 is less than 10	*
Program that will take two nur than/less than/equal to Y. Sample input (X,Y) 5 -10	No Negative input is not valid mbers X & Y as inputs and decide whether X is greater Sample output 5 is greater than -10	*
Program that will take two nur than/less than/equal to Y. Sample input (X,Y) 5 -10 5 10	No Negative input is not valid mbers X & Y as inputs and decide whether X is greater Sample output 5 is greater than -10 5 is less than 10 5 is equal to 5	*
Program that will take two nur than/less than/equal to Y. Sample input (X,Y) 5 -10 5 10 5 5	No Negative input is not valid mbers X & Y as inputs and decide whether X is greater Sample output 5 is greater than -10 5 is less than 10 5 is equal to 5	
Program that will take two nur than/less than/equal to Y. Sample input (X,Y) 5 -10 5 10 5 5	No Negative input is not valid mbers X & Y as inputs and decide whether X is greater Sample output 5 is greater than -10 5 is less than 10 5 is equal to 5 her a year is leap year or not.	
Program that will take two nur than/less than/equal to Y. Sample input (X,Y) 5 -10 5 10 5 5 Program that will decide whetless, if (Year % 4)	No Negative input is not valid mbers X & Y as inputs and decide whether X is greater Sample output 5 is greater than -10 5 is less than 10 5 is equal to 5 her a year is leap year or not. == 0 && year % 100 != 0) (Year % 400 == 0)	
Program that will take two nur than/less than/equal to Y. Sample input (X,Y) 5 -10 5 10 5 5 Program that will decide wheth Yes, if (Year % 4) Sample input	No Negative input is not valid mbers X & Y as inputs and decide whether X is greater Sample output 5 is greater than -10 5 is less than 10 5 is equal to 5 her a year is leap year or not. == 0 && year % 100 != 0) (Year % 400 == 0) Sample output	
Program that will take two nur than/less than/equal to Y. Sample input (X,Y) 5 -10 5 10 5 5 Program that will decide whetl Yes, if (Year % 4) Sample input 2000	No Negative input is not valid mbers X & Y as inputs and decide whether X is greater Sample output 5 is greater than -10 5 is less than 10 5 is equal to 5 her a year is leap year or not. == 0 && year % 100 != 0) (Year % 400 == 0) Sample output Yes	
Program that will take two nur than/less than/equal to Y. Sample input (X,Y) 5 -10 5 10 5 5 Program that will decide wheth Yes, if (Year % 4) Sample input 2000 2004	No Negative input is not valid mbers X & Y as inputs and decide whether X is greater Sample output	
Program that will take two nur than/less than/equal to Y. Sample input (X,Y) 5 -10 5 10 5 5 Program that will decide wheth Yes, if (Year % 4) Sample input 2000 2004	No Negative input is not valid mbers X & Y as inputs and decide whether X is greater Sample output	

⊥ ⊢ Sai	mple input			Sample out	put		7
Z	iipic iiiput			Alphabet	put		1
A				Alphabet			1
8				Digit			1
*				Special			
Prog	gram that w	ill evaluate sim	ple express	ions of the form	-		**
		<nu< th=""><th>ımber1> <</th><th>operator> <nu< th=""><th>mber2></th><th></th><th></th></nu<></th></nu<>	ımber1> <	operator> <nu< th=""><th>mber2></th><th></th><th></th></nu<>	mber2>		
		;	where ope	erators are (+, - ,	*,/)		
	An	d if the operato	or is "/", the	en check if <num< th=""><th>ber2> nonzero</th><th>or not.</th><th></th></num<>	ber2> nonzero	or not.	
Sai	mple input	·		Sample out			1
Jai							
		5					
100	0 * 55.!			Multiplication: -2	on: 5550		
10	0 * 55.5 0 / -5.5			Multiplication: -2	on: 5550	s not valid!	
100 100 100	0 * 55.! 0 / -5.5 0 / 0		score of a	Multiplicati Division: -2 Division: 2	on: 5550 18.181818 Iero as divisor i	s not valid! as input and find	*
100 100 100	0 * 55.9 0 / -5.5 0 / 0 gram that wi	ill take the final		Multiplicati Division: -2 Division: 2	on: 5550 18.181818 Gero as divisor i	as input and find	*
100 100 100	0 * 55.9 0 / -5.5 0 / 0		score of a Marks 70-73	Multiplicati Division: -2 Division: Z student in a par	on: 5550 18.181818 Iero as divisor i		*
100 100 100	0 * 55.5 0 / -5.5 0 / 0 gram that wher grade.	ill take the final Letter Grade	Marks	Multiplicati Division: -2 Division: Z	on: 5550 18.181818 Pero as divisor i ticular subject	as input and find Letter Grade	*
100 100 100	0 * 55.5 0 / -5.5 0 / 0 gram that wither grade. Marks 90-100 86-89 82-85	Letter Grade A A- B+	Marks 70-73 66-69 62-65	Multiplication: -2 Division: -2 Division: -2 Student in a part Letter Grade C+ C C-	on: 5550 18.181818 Pero as divisor i ticular subject	as input and find Letter Grade	*
100 100 100	0 * 55.9 0 / -5.5 0 / 0 gram that wher grade. Marks 90-100 86-89 82-85 78-81	Letter Grade A A- B+ B	Marks 70-73 66-69 62-65 58-61	Multiplication: -2 Division: -2 Student in a par Letter Grade C+ C C- D+	on: 5550 18.181818 Pero as divisor i ticular subject	as input and find Letter Grade	*
100 100 100	0 * 55.5 0 / -5.5 0 / 0 gram that wither grade. Marks 90-100 86-89 82-85	Letter Grade A A- B+	Marks 70-73 66-69 62-65	Multiplication: -2 Division: -2 Division: -2 Student in a part Letter Grade C+ C C-	on: 5550 18.181818 Pero as divisor i ticular subject	as input and find Letter Grade	*
100 100 100 Prog his/	0 * 55.! 0 / -5.5 0 / 0 gram that wither grade. Marks 90-100 86-89 82-85 78-81 74-77	Letter Grade A A- B+ B	Marks 70-73 66-69 62-65 58-61	Multiplication: -2 Division: -2 Student in a par Letter Grade C+ C C- D+ D	on: 5550 18.181818 Eero as divisor i ticular subject a Marks Less than 55	as input and find Letter Grade	*
100 100 100 Prog his/	0 * 55.5 0 / -5.5 0 / 0 gram that wher grade. Marks 90-100 86-89 82-85 78-81 74-77	Letter Grade A A- B+ B	Marks 70-73 66-69 62-65 58-61	Multiplication: -2 Division: -2 Student in a par Letter Grade C+ C C- D+	on: 5550 18.181818 Eero as divisor i ticular subject a Marks Less than 55	as input and find Letter Grade	*

12.	Program that will construct a menu for performing arithmetic operations. The user will give
	two real numbers (a, b) on which the arithmetic operations will be performed and an integer
	number (1 <= Choice <= 4) as a choice. Choice-1, 2, 3, 4 are for performing addition,
	subtraction, multiplication, division (quotient) respectively.

Sample input (a, b, Choice)	Sample output	
5 10	Multiplication: 50	
3		
-5 10.5	Quotient: 0	
4		

Program that will construct a menu for performing arithmetic operations. The user will give two real numbers (a, b) on which the arithmetic operations will be performed and an integer number (1 <= Choice <= 4) as a choice. Choice-1, 2, 3, 4 are for performing addition, subtraction, multiplication, division respectively.

If Choice-4 is selected, again the program will ask for another choice (1 <= **Case** <=2), where Case-1, 2 evaluate quotient and reminder respectively.

Sample input	Sample output	
5 10	Multiplication: 50	
3		
-5 10.5	Quotient: 0	
4		
1		
-5 10.5	Reminder: -48	
4		
2		

14. Program that will construct a menu for performing arithmetic operations. The user will give two real numbers (a, b) on which the arithmetic operations will be performed and an integer number (1 <= Choice <= 4) as a choice. Choice-1, 2, 3, 4 are for performing addition, subtraction, multiplication, division respectively.

If Choice-4 is selected, the program will check if **b** is nonzero.

If the check is true, the program will ask for another choice (1 <= **Case** <=2), where Case-1, 2 evaluate quotient and reminder respectively. If the check is false, it will print an error message "Error: Divisor is zero" and halt.

Sample input	Sample output
5 10	Multiplication: 50
3	
-5 10.5	Reminder: -48
4	
2	
-5 0	Error: Divisor is zero
4	

15. Program for "Guessing Game":

Player-1 picks a number **X** and Player-2 has to guess that number within **N** = **3** tries. For each wrong guess by Player-2, the program prints "Wrong, **N-1** Chance(s) Left!" If Player-2 successfully guesses the number, the program prints "Right, Player-2 wins!" and stops allowing further tries (if any left). Otherwise after the completion of **N** = **3** wrong tries, the program prints "Player-1 wins!" and halts.

[Restriction: Without using loop/break/continue

Hint: Use flag]

Sample input (X, n1, n2, n3)	Sample output
5	Wrong, 2 Chance(s) Left!
12 8 5	Wrong, 1 Chance(s) Left!
	Right, Player-2 wins!
100	Wrong, 2 Chance(s) Left!
50 100	Right, Player-2 wins!
20	Wrong, 2 Chance(s) Left!
12 8 5	Wrong, 1 Chance(s) Left!
	Wrong, 0 Chance(s) Left!
	Player-1 wins!