Date: 23/7/25 Task-1: Running python Soript and various Expression in an interactive Interpret or (a) person Basic mathematical computation Aim: To swrife a python possogram that accepts two numorical inputs and portains addition, subbraction, multiplication and division operations. Alganithm: 1. Stood the perogram 2. Accept two numerical input from Men 3. Penfoonm i, addition ii, subforaction iii, multiplication iv, Division 4. Display the siesults 5. End the program Perogram: X = float (input ("enter First number")) Y = float (input ("Enter Second number")) Perint (" 1. addition = /", X+Y, "In2. Subbaction = "X-Y) 11 Ing. multiplication = ", x \* / "Ing divisions Repult: the priogram successfully partorised all withmatic operations on the given output, and displayed the results

output:

Enler second number: 100 Enler second number: 20

1. Addition: 120.0

2. Subtraction: 80.0

3. multiplication: 2000 6

A.pivision: 5.0

6/3

b Evaluate Relational Expression Aim: To develope a python program that empares two numeric values using seletional operators and displays the rout compares of each comparison. Algorithm: 2. Priompt the user to enter the livest & core and stone if in scapne! 3- Parampt the user to enter the second score and stone it in Score 2 4. Compare the fus Doore using relational operators: 3 Gronel > Score 2 3001e 1 L Scorez S Core 1 == 5001e2 Score 1 != Score2 Score 1 >= Score 2 Score 1 Z = Score 2 5. Dis play the comparison results using formatted output. 6. End the priagram. Program! scene 1 = float (input ("Enter Sirst Score:")) score 2 = float (input ("Enter Becond geore:")) printf(f"a)b: (Score1) Score24")

Print(f"a)b: (Score 1) Score 2y")

Print(f"a(b): (Score 1 < Score 2 y")

Print (f"a = :b: L score 1 = = 3 core 2 y")

Print (f"a | = b: L score 1! = 5 core 2 y")

Print (f"a > = b: (Score ) = 5 core 2 y")

Print (f"a > = b: (Score ) = 5 core 2 y")

Print(f"a > = b: L score (= Score 2 y")

output: [ 10] many 1 in legalities Ender Livot 3 Core: 85 Entor Second Score: 90
a)b: False a ( b'. Tenue a == b: False al=b: Taive a )=b: Fabe a l=b. Trees

Result:

The program Correctly avaluated all the relational expression between the two given outputs.

C) check dog cal conditions Across multiple inputs.

Aim:

To Oreale a python program that sures logical operators (and sort not) to evaluate conditions across throne pert score

Algorith m!

1. Stood the perogram
2. Perompt the user to enter marks for revisable there test and store them in variable to the test and store them in variable to the test and the test

3. check is the condidate passed all step of using the and operator and stort e the greatly in all-passed.

4. check it the condidate passed at least one dest using the on operator and

store the result in any-rossed.

3. doch if the codidate to called all fest

curing the not operator

- · whether the condidate passed all tet · whether the condidate passed at least one test · whether the condidate foiled all ted
- 7. End the program

Enter marks for Test 1: 45
Enter marks for test 2:38
Enter marks for test 3:42
Passed all test: False
Passed at least one fet: True
Failed all test: False

 $\int_{\mathcal{S}}$ 

Print (" Failed all fest:", all - failed)

to Int ("Failed all fest:", all - failed)

to Interprete (" Failed all fest:", all - failed)

print (" Failed all fest:", all - failed)

VEL TECH - CS	E	
EX NO.	1	
PERFORMANCE (5)	5	
RESULT AND ANALYSIS (5)	5	
VIVA VOCE (5)	5	
RECORD (5)	_	1
TOTAL (20)	15	1
GN WITH DATE		1
	W b	10

Result:

The possessions and orrectly identified must fail conditions based on test score