Task 1:- Running Python Script and various expressions in an interactive interpreter

Aim:-

To run Python Script and various expressions in an interactive interpreter.

a) Create a Python program to enter two numbers and then performs and displays the results of the following operations: addition subtraction, multiplication and division.

Algorithm:-

1. Start
2. Get the two numbers and store ptph variable 'x' and 'y'
3. For addition do x+y and point it
4. For subtraction do x-y and point it
5. For Division do x/y and print it
6. For multiplication do x*y and print it
7. Stop.

Program:-

```
x= int (input ("enter"))
y= int (input ("Enter the second number"))
    add =x+y
    Sub = x-y
    mull = x*y
    Div =x/y
    Point ("Addition", add)
    Point ("subtraction" sub)
    Point ("multiplcation" pro)
    Point ("Division", div)
```

Out Put

Enter the first number :2

Enter the second number :3

Addition=5

Subtraction=1

multiplication=6

Division :0.666666

b) Create a Python Program to enter two numbers and then performs and displays the results of the following relation as expression : >, <, ==, !=, >=, <=

Algorithm:-

1. Start
2. Let the input from the user and store in a, b & c
3. Perform the relation operations.
   i.e ><, ==, !=, >=, <=)
4. Print the results.
5. Stop

Program:-

```
# initializing the value of a, b, and c
a = int (input ("Enter the first number"))
b = int (input ("Enter the second number"))
c = int (input ("Enter the third number"))
    # using relational operators
print (a, ">", b "is", a>b)
Print (a, "<" b, "is" a<b)
Print (c, "==" a "is" c==a)
Print (a, "!=", b, "is", a>=b)
Print (a, ">=", b, "is, a>=b)
Print (b, "<=", a" is b<=a)
```

out put:-

enter the first number:5

enter the second number:6

enter the third number:7

5>6 is false

5>6 is true

7==5 is false

7==6 is true

5>=6 is false

6<=5 is false.

Q.

Output:

enter the first number: 5

enter the second number: 6

enter the third number: 7

logical operations results:-

False

False

True

True

(c) Create a Python to enter three numbers and then performs and display the results of the following logical operations and or, not

Algorithm:-

1. Start
2. Let the input from the user
3. Perform the logic and of operations on the inputs
4. Print the result
5. Stop.

Program:-

```
# Taking three numbers as input
a= int (input ("Enter the first number"))
b= int (input ("Enter the second number"))
# performing logical operations.
Print("Logical operations results:")
Print((a>b) and (b>c))
Print((a>b) or (b>c))
Print (not (a>b))
Print (not (b>c))
```

WELTECH	
EX No.	1
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	5
TOTAL (20)	20
SIGN WITH BATE	6/8/24

Result:- Thus the python program run python script and various experssions in teractive out put leas verified.