Task1: 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, substraction, multiplication, & division

Algorithm:

1. Start
2. Get the two numbers and store it in variable x & y
3. for Addition do', x+y and print it.
4. for substraction do', x-y and print it.
5. for multiplication do', x*y and print it.
6. for Division do', x/y and print it.
7. Stop

Program:

```
x = int (input ("Enter the first number: "))
y = int (input ("Enter the second number: "))

    add = x+y
    sub = x-y
    pro = x*y
    div = x/y

print (" Addition: ", add)
print (" substraction: ", sub)
print (" Multiplication: ", pro)
print (" Division: ", div)
```

Output:

========== RESTART: C:\Users\919\9\Desktop\b.py.

Enter the first number: 5

Enter the second number: 6

Addition: 11

Subtraction: -1

multiplication: 30

Division: 0.8333333333333334

B. Create a python program to enter two numbers and then performs and displays the results of the following relational expressions: >, <, ==, !=, >=, <=.

Algorithm:

1. Start
2. Get the input from the user and store in a, b & c.
3. perform the relational operations (i.e, >, <=, ==, !=, >=, <=)
4. print the results
5. stop.

Program:

```
#initializing the value of a, b, & 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 (c, "!=", b, "is", c!=b)
  print (a, ">=", b, " is", a>=b)
  print (b," <=", a," is", b<=a)
```

output:

====== RESTART : C:/US

Enter the first number: 5
Enter the second number: 6
enter the Third num: 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

6. Create a Python program to Enter three numbers and then performs and displays the results of the following logical operations: and, or, not.

Algorithms:

1. start
2. Get the input from the user
3. perform the logical operations on the inputs
4. print the results
5. stop.

Program:

```
# Taking three numbers as input
a = int (input (" Enter the first number :"))
b = int (input ("Enter the Second number : "))
c = int (input ("Enter the Third number: "))
# performing logical operations
print ("\n logical operations Results :")
print ((a>b) and (b>c))
print ((a>b) or (b>c))
print (not (a>b))
print (not (b>c))
```

output:

===== RESTART: C:/use

Enter the first num: 5
Enter the second num: 6
Enter the third num: 7

logical opesations Results:

false
false
True
True
True.

VFL TECH	
EX No	1
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	5
TOTAL (20)	20
SIGN WITH DATE	30/7

VFL TECH	
EX No	
PERFORMANCE (5)	
RESULT AND ANALYSIS (5)	
VIVA VOCE (5)	
RECORD (5)	
TOTAL (20)	
SIGN WITH DATE	

Result: Thus the python program to run python script and various expressions in an interactive interpreter was don successfully and the output was verified.