Task-1:- Running python script and various expressions in an interactive interpreter

Aim:- To run python script and various expression 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 it in variable 'x' and 'y'.
3. For addition do x+y and print it.
4. For subtraction do x-y and print it.
5. For multiplication do x*y and print
6. For division 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
Pro = x*y
div = x/y
Print("Addition", add)
Print("subtraction", Sub)
Print("multiplication", Pro)
Print("Division", div)
```

Output:

Enter the first number: 2

Enter the second number: 3

Addition: 5

Subtraction: -1

multiplication: 6

~~Division: 0.8333333333333334~~

Division: 0.66666

output:-

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

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

Algorithm:-

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

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(c"!=", b, "is", a>=b)
print(a", " >= ", b, "is", a>=b)
print(b, " <= ", a" is" b<=a)
```

## 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 Program to enter three numbers and then performs and displays the results of the following logical operations and or, not.

Algorithm:-

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:"))
# Performing logical operations
print ("In logical operations Results:")
Print((a > b) and (b > c))
Print ((a > b) or (b > c))
print (not (a > b))
print (not (b > c))
```

| 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 done successfully and the output was verified.