# 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 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 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("Subtraction:",sub)
    print("Multiplication:",pro)
    print("Division:",div)
```

### **Output:**

```
Enter the First number:5
Enter the Second number:6
Addition: 11
Subtraction: -1
Multiplication: 30
Division: 0.8333333333333333
```

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 the input from the user and store it in a,b&c.
- 3.Perform the relational 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(c, "!=", b, "is", c != b)
print(a, ">=", b, "is", c != b)
print(b, "<=", a, "is", b <= a)</pre>
```

## **Output:**

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: "))
c = int(input("Enter the Third number: "))

# Performing logical operations
print("\nLogical Operations Results:")
print((a > b) and (b > c))
print((a > b) or (b > c))
print(not(a > b))
print(not(b > c))
```

#### Output

```
Enter the First number: 5
Enter the Second number: 6
Enter the Third number: 7

Logical Operations Results:
False
False
True
True
```

#### Result

Thus, the python program to run Python Script and various expressions in an interactive interpreter was don successfully and the output was verified.