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

Aim : To run python script and various expression in an interactive interpreter

Algorithm :

1. start
2. Get 2 numbers and store in variable x and y
3. For addition do; x+y and print
4. For subtraction do; x-y and print
5. For multiplication do; x*y and print
6. For division do; x/y and print
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)
```

Output

Enter the first number = 5

Enter the second number = 6

addition : 11

subtraction : -1

Multiplication : 30

Division : 0.833333333333334

```
Print ("Subtraction : "sub)
Print ("Multiplication : " Pro)
Print ("Division : ", div)
```

b. Create a python program to enter 2 num and then perform and display the results of the following expressions : >, <, ==, !=, >=, <=

Algorithm

1. Start
2. Get the input from the user and store it in a, b & c
3. Perform the relational operators
4. Print the results.
5. Stop.

Program

```
a = int (input ("Enter the first num:"))
b = int (input ("Enter the second num:"))
c = int (input (" Enter the third num:"))

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 (b, "<=", a, "is", b<=a)
```

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

c. create a python program to enter three numbers and then perform and display the results of the following logical operations.

Algorithm :

1. Start
2. Get the input from the user
3. Perform the logical operations
4. Print the results.
5. Stop.

Program

```
a = int (input (" Enter the first num: "))
b = int (input (" Enter the second num: "))
c = int (input (" Enter the third num: "))

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))
```

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EX No.	1
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	5
TOTAL (20)	20
SIGN WITH DATE	10/8

Result :

Thus, the python program to write python script and various expression in an interactive interpreter was done successfully and the output was verified.