TASK - 1

RUNNING PYTHON SCRIPT AND VARIOUS EXPRESSIONS IN A INTERACTIVE INTERPRETER

AIM: TO RUN python script and various expressions in an interactive interpreter.

a. Create a python program to enter two numbe -rs and then performs and displays the results of the following operations addition, subtraction, multiplication and divison.

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 divison 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("Divison", div)
```

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. Print the relational operations.
4. Print the results.
5. Stop.

Program:

```
# intializing the values 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:

```
Enter the first number : 5
Enter the second number : 6
Addition : 11
Subtraction : -1
Multiplication : 30
Division : 0.8333333334
```

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
```

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 input.
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("\n logical operation results:")
Print((a>b) and (b>c))
Print(not(a>b))
Print(not(b>c))
```

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RESULT AND ANALYSIS (3)	
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TOTAL (15)	
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RESULT: Thus, the python program to run scripts and various expressions in an interactive interpreter was done sucessfully and output was verified.