

TASK - I : Running Python Script and various expressions in an
interaction 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 to the following operations : addition, subtraction, multiplication, and division.

Algorithm:

1. Start
2. Get the two numbers and store it in the 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 : 0.8333333333333334

(b) Create a python program to enter two numbers and then performs and displays the results of the following relational expression : $>, <, ==, !=, \geq, \leq$

Algorithm :

1. Start
2. Get the input from the user and store it in a, b & c.
3. Perform the relational operations (i.e., $>, <, ==, !=, \geq, \leq$)
4. Print the result.
5. Stop

Program :

```
# Initially 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 operations.  
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, "\geq", b, "is", a\geq b)  
print(b, "\leq", a, "is", b\leq 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 performs and display 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("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	8

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Result: Thus, the python programming to our Python script and various expressions in an interactive interpreter was done successfully and the output was verified.

Output

Enter the first number : 5

Enter the Second number : 6

Enter the Third number : 7

logical Operations Results:

false

false

true

true