

Task 2: Running Python Script and various expressions in an interactive interpreter.

- a) Aim: To run python script and various expressions in a interactive a. create a python program to enter two numbers and then performs and displays 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)
```

Out Put:-

Enter the first number : 5

Enter the second number : 6

Addition : 11

Subtraction : -1

Multiplication : 30

• Division : 6.8333333334

B. Create a python program to enter two numbers and then performs and displays the results of the following relational expression: $>$, $<$, $=$, \neq , \geq , \leq .

Algorithm:

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

Program:

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

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

print(c, "\geq", b, "is", c>=b)
print(a, "\geq", b, "is", a>=b)
print(b, "\leq", a, "is", b<=a)
```

Output: And hence result is greatest; 100

Enter the first number? 87

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 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:-

```
a = int(input ("Enter the first number:"))
b = int(input ("Enter the second number:"))

print ("Logical operations Results:")
print ((a>b) and (b>c))
print ((a>b) or (b>c))
print (not (a>b))
print (not (b>c))
```

Result:-

Thus, the Python program to run Python script and various expressions is an interactive interpreter was done successfully and the output was verified.

VELTECH	
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PERFORMANCE(3)	3
RESULT AND ANALYSIS(5)	5
VIVA VOICE(5)	5
RECORD(5)	2
TOTAL(20)	18
SIGN WITH DATE	6/8