

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 pt Pn variaible 'x' and 'y'
3. For addition do  $x+y$  and print it.
4. For subtraction do  $x-y$  and print it.
5. For division do  $x/y$  and print it.
6. For multiplication 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
Poo = x*y
Div = x/y

print ("Addition", add)
print ("Subtraction", Sub)
print ("multiplication", Poo)
print ("Division", Div)
```

Output or

Entered the First number = 2

Entered the Second number = 3

Addition = 5

Subtraction = 1

multiplication is 6

Division is 0.666666

b) Create a Python Program to enter two numbers and then performs and displays the results of the following relations as expression &  $>, =, \neq, \geq, \leq$

Algorithm

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

Program

# initializing the value 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", a != b)

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

• if true then  $y+x$

• if true then  $y-x$

• if true then  $y/x$

• if true then  $y^x$

(("odd man 1267 or 1271 or 1273") true;)  $t_n = x$

(("odd man 1269 or 1271 or 1273") true;)  $t_n = y$

$$y+x = 660$$

27/02/2019  
Output  
 $\frac{5}{5} = 1$

Enter the First number : 5

Enter the Second number : 6

Enter the Third number : 7

Logical operations Results

False

False

True

True

33d/p 70 GUIDV 91f Eni&il&fnn #

((0xdmru + 2817 91f 094n) t09n) tn=0

((0xdmru 1n092 91f 094n) t09n) tn=d

((0xdmru b91f 91f 094n) t09n) tn=d

20030090 1n091f098 Eni&u #

(d>0, "2", "d", "<", 0) tn=0

(d>0, "2", "d", ">", 0) tn=0

(d>0, "2", "d", "=!", 0) tn=0

(d>0, "2", "d", "!", 0) tn=0

(d>0, "2", "d", "!", 0) tn=0

③ Create a Python program to enter three numbers and then performs and displays the results of the following logical operations & or, not.

### Algorithm:-

1. Start
2. Get the input from the user.
3. Perform the logic and of 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"))

# 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))

Result:- Thus, the Python

python script and various expressions in an interactive output was verified.

VEL TECH	
EX NO.	5
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	5
TELEGRAM TO MR. DRAWDHARAN	20
SIGN WITH DATE	08/08/2023