

# Task-1 : Running python script and various expressions in an interactive interpreter

## Aim:-

To run python script and various expression in an interactive interpreter & to 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 ph variable 'x' and 'y'
3. for addition do  $x+y$  and point it
4. for subtraction do  $x-y$  and point it
5. for division do  $x/y$  and point it
6. for multiplication do  $x*y$  and point it
7. stop

## Program:-

```
x = int(input("Enter"))
y = int(input("Enter the second number"))
add = x+y
sub = x-y
mul = x*y
div = x/y
```

print ("Addition", add)

print ("Subtraction", sub)

print ("Multiplication", mul)

print ("Division", div)

## Out put

Enter the first number = 2  
Enter the second number = 3

Addition 5

Subtraction -1

Multiplication 6

Division : 0. 666666

By going along

use case-1

5) Create a Python program to enter two numbers and then performs and displays the results of the following relation as expression:  $>, <=, =, \geq, \leq$

Algorithm:

1. Start

2. Let the input from the user and store in cube

3. perform the relation operations

i.e  $>=, ==, !=, >, <=$

4. print the results.

5. Stop.

Program:

```
# initializing 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 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(a, ">=", b, "is", a>=b)
print(b, "<=", a, "is", b<=a)
```

out put:

enter the first number : 5

enter the second number : 6

enter the third number : 2

$5 > 6$  is False

$5 < 6$  is True

$7 = 5$  is False

$7 = 6$  is True

$5 > = 6$  is False

$6 < = 5$  is False

'6' and '5' is odd even

'6' has less bits than '5'

((Creating) word) fair = 10  
((reading) word) fair = 10

100 = 1000000000

100 = 1000000000

100 = 1000000000

100 = 1000000000

(Word, "difficult") twice  
(due, "difficult") twice  
(or, "difficult") twice  
(with, "difficult") twice

Output: at runtime message of type  
entered the first number: 5 and sum is  
entered the second number: 6 to calculate  
entered the third number: 7 = 18.5 : address  
logical operations results:

false

false

true

true

Explanation: here we can see that when we use logical operators with float numbers then it gives false output.

(25.5, 25.5, 25.5) ==, != <, >

all these gives false output.

because .25 is not equal to .25

so here we can see that the result of logical operation is false.

(("Red" > "Green") || ("Blue" > "Yellow")) false = 0

(("Green" > "Red") || ("Blue" > "Yellow")) false = 0

(("Red" > "Blue") || ("Green" > "Yellow")) false = 0

so here we can see that the result of logical operation is given as 0.

(&p, "ai", d, "<") true

(d=>p, "ai", d, ">") true

(d=>p, "ai", d, "<") false

(d=>p, "ai", d, ">") false

(d=>p, "ai", d, "<") true

⑥ Create a python to enter three numbers and then performs and display the results of the following logical operations and OR, NOT

Algorithm:

1. Start
2. Let the input from the user
3. Perform the logic and of operations
4. Print the result
5. Stop

Program:

```
# Taking three numbers as input
a = int(input ("Enter the first number"))
b = int(input ("Enter the second num"))
# 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))
```

VEL TECH	
NAME	1
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	5
TOTAL (20)	20
" WITH DATE	20

Result: Thus the python program run python script and various expressions in interactive output was verified.