

**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 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)
```

VEL TECH	
EX No.	1
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (3)	3
RECORD (4)	5
TOTAL (20)	20
DATE	20/12

Output:- RESTART:- C:\users\919\9\Desktop\l.p)

Enter the First number: 5

Enter the second number: 6

Addition: 11

Subtraction: -1

multiplication: 30

Division: 0.83333333333333334.

2)

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) perform the relational 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", c != b)
print(a, ">=", b, "is", a >= b)
print(b, "<=", a, "is", b <= a)
```

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Output:- ===== RESTART: C:\US

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 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:-

```
#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("\n logical operations result: ")
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 in an interactive interpreter was done successfully and the output was verified.

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EX No.	
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VIVA VOCE (5)	
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TOTAL (20)	
VIGN WITH DATE	

Output:-

RESTART:C:\Use

Enter the First number: 5  
Enter the second number: 6  
Enter the Third number: 7

logical operations Results:

False  
False  
True  
True

