Output:-

Enter the first number:5
Enter the second number:6
Addition:11
Subtraction:-1
Multiplication:30.
Division:0.833333333334

Date: 13/9/25 Task 5:1

Running Python script and various expressions in interaction interpreter.

Aim: To run python script and various expressions in an interactions interpreter.

a) Create a python program to enter two numbers and then performs and displays the result of the following operations: addition, subtraction, multiplication, and division.

Algorithm:-

⇒1) Start

2) Get the two numbers from and store it in variable x and y

3) For subtraction do: x-y and print it.

4) For addition: x+y and print it

5) for Multiplication do: x*y and print it.

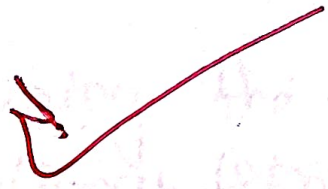
6) for Division do: x/y and print it.

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)
```



Result:- Thus, the program is arthamitic operation is successfully executed.

b) Create a python program to enter two numbers and then performs and the following relational expression: >, <, ==, !=, >=, <=

Algorithm:

1) Start
2) Get the the input from the user and store it in a, b & c.
3) Performs 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 operations
print(a, ">", b, "is", a>b)
print(a, "<", b, "is", a<b)
print(c, "==", b, "is", c==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

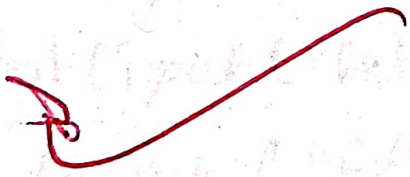
5 >= 6 is false

6 <= 5 is false

print (c, "!=", b, "is", (!=b)

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

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



Result:- Thus, the program is relational operators is successfully executed.

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

Output:-

Enter the first number : 5

Enter the second number : 6

Enter the third number : 7

logical operations Results:

false

false

true

true

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EX NO.	5
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	
TOTAL (20)	
SIGN WITH DATE	

Result:- Thus, the python Program to run Python - Script and various expressions in an interactive interpreter was done successfully and the output was verified.