Task 1 :- Running python script and various expression on an interactive interpreter

Aim :- To run python script and various expressions on an interactive interpreter a create a python program to enter two numbers and than 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 on variable 'ex' 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

Program :-

```
X= int(input("enter the first number"))
Y= int(input("enter the second number"))
add = X+Y        pro = X*Y
sub = X-Y        div = X/Y
Print ("Addition", add)
Print ("subtraction", sub)
print ("multiplication", pro)
print ("Division", Div)
```

OK

LABORATORY

Out put :-

Enter the First number = 2

Enter the second number = 3

Addition = 5

Subtsaltion = -1

multiplication = 6

Division = 0.666666

Out put :-

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

b) Create a python program to enter two numbers and then performs and display the results of the following relations as expression

>, ==, !=, >=, <=

Algorithm :-

1) Start
2) Get the input from the user and store it in a, b & c
3) Perform the relation operations (i.e >>=, ==, !=, >?, <=)
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)
```

Out put :-

Enter the First number = 5
Enter the second number = 6
Enter the third number = 7
Logical operations results :-

False
False
True
True

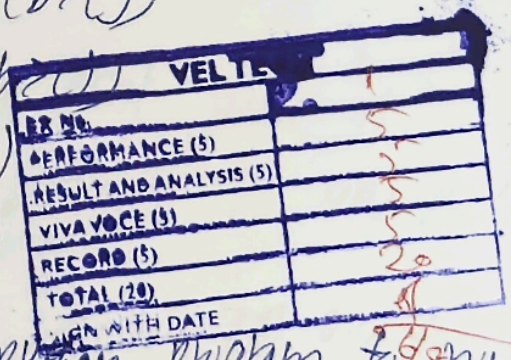
(c) Create a python program to enter three numbers and then perform and display the results of the following logical operations & or, not

Algorithm :-

1) Start
2) get the input from the user
3) perform the logical 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
Print(not (a>b))
Print(not (b>c))
```



Result :- Thus the python program to run python script and various expressions on an interactive output was verified.