23/07/25

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.

output :-

Enter the first number : 5
Enter the Second number : 5
Addition : 10
Subtraction : 0
Multiplication : 25
Division : 1.0

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)
```

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)
```

Output :

```
Enter the first number : 5
Enter the Second number : 2
Enter the third number : 5
5 > is True
5 < 2 is False
5 == 5 is True
5 != 2 is True
5 >= 2 is True
2 <= 5 is True
```

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 ("\nLogical operations Results : ")
Print ((a > b) and (b > c))
Print ((a > b) or (b > c))
Print (not (a > b))
Print (not (b > c))
```

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Result :-

Thus the python program to run python Script and Various expressions in an interactive interpreter was done successfully and the output was verified

output :-

```
Enter the first number :5
Enter the Second number : 4
Enter the third number : 5

Logical operations Results.

False

True

False

True
```