

Task 1: Running Python script and various
expressions in an interactive interpreter

Aim: To run Python script and various
expressions in a interactive interpreter

a. create a python program to enter two number
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)
```

Output:-

Enter the first number: 5

Enter the second number: 6

Addition : 11

Subtraction: -1

multiplication: 30

Division: 0.833333333334

b. Create a Python program to enter two numbers and then performs and displays the results of the following relational expressions: $>$, $<$, $=$, \neq , \geq , \leq

Algorithm

1. Start
2. Get the input from the user and store it in a, b, c

3. Perform the relation operations (ie. $>$, $<$, $=$, \neq ,

\geq , \leq)

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, "==", a, "is", c == a)
```

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

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

```
print(b, "c =", a, "is", b == 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

c. create a python program to enter three number 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

#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("In 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
```

three
displays
at a time

Logical operation Results:

false

false

true

true

Result:-

Thus the Python program to run Python script and various expressions is an interactive interpreter was done successfully and the output was verified.

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