

Task 1:- Running python script and various expressions in an interactive interpreter.

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

① 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 variables 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)
```

8, 9, 15, 16

Output:-

Enter the first number : 5

Enter the second number : 6

Addition : 11

Subtraction : -1

Multiplication : 30

Division : 0.8333333333333334

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

Algorithm:-

1. Start
2. Get the input from the user and store it in $a, b \& c$
3. perform the relational operations (i.e., $>, <, \geq, \leq, !=, \geq\geq, \leq\leq$)
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 operators

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

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

~~```
print(c, "\u0333", a, "is", c==a)
```~~~~```
print(a, "\u0334", b, "is", a>=b)
```~~~~```
print(b, "\u0335", a, "is", b<=a)
```~~

(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

### 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

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Output:

Enter the first number: 5

Enter the second number: 6

Enter the third number: 7

Logical operations Results:

false

false

true

true

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:"))
```

# perform 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))
```

### Result:-

Thus, the python program to run python script and various expressions in an interactive interpreter was done successfully and the output was verified.

| VEL TECH               |          |
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