

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.

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
```

5) 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.
4. Start / 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, "<=", a, "is", b <= a)
```

```
print ("Addition", add)
print ("Subtraction", sub)
print ("Multiplication", pro)
print ("Division", div)
```

Out put :-

Enter the First number : 5

Enter the Second number : 6

Addition : 11

Subtraction : -1

Multiplication : 30

Division : 0.8333333333333334

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

c) create a python program to enter three numbers and then performs and display 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("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

$5 > 6$ is False

$5 < 6$ is True

$7 == 5$ is False

$7 != 6$ is True

$5 >= 6$ is False

$6 <= 5$ is False.



Output :

Enter the First Number : 5

Enter the second number : 6

Enter the Third number : 7

Logical operations Results :

False

False

True

True



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

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