


Output:

Enter first value: 100

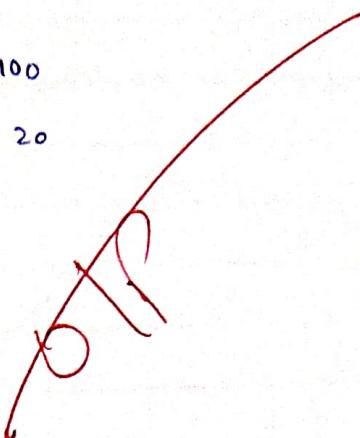
Enter second value: 20

Addition: 120.0

Subtraction: 80.0

Multiplication: 2000.0

Division: 5.0



31/7/25

## Task-1: Running Python Script And Various Expressions in an Interactive Interpreter

### (a) Perform Basic Mathematical Computations.

#### Aim:-

To write a Python program that accepts two numerical inputs and perform addition, subtraction, multiplication, and division operations.

#### Algorithm:-

1. Start the program.
2. Accept two numerical inputs from the user.
3. perform:
  - Addition
  - Subtraction
  - Multiplication
  - Division (if second number is not zero).
4. Display the results.
5. End the program.

#### Program:-

```
num1 = float(input ("Enter first value:"))
num2 = float(input ("Enter second value:"))
print ("Addition:", num1 + num2)
print ("Subtraction:", num1 - num2)
print ("Multiplication:", num1 * num2)
print ("Division:", num1 / num2)
```

#### Result:

The program successfully performed all arithmetic operations on the given inputs and displayed the results.

### Output:-

Enter first score: 85

Enter second score: 90

$a > b$ : False

$a < b$ : True

$a == b$ : False

$a != b$ : True

$a <= b$ : False

$a >= b$ : True

## 3/7/25 (b) Evaluate Relational Expressions.

### Aim:-

To develop a python program that compares two numeric values using relational operators and displays the result of each comparison.

### Algorithm:-

1. Start the program.
2. Accept two numbers from the user.
3. Apply the following relational operators:
  - Greater than ( $>$ )
  - Less than ( $<$ )
  - Equal to ( $=$ )
  - Not equal to ( $\neq$ )
  - Greater than or equal to ( $\geq$ )
  - Less than or equal to ( $\leq$ )
4. Display the results.
5. End the program.

### Program:-

```
a = float(input("Enter first score:"))
b = float(input("Enter second score:"))
print("a > b:", a > b)
print("a < b:", a < b)
print("a == b:", a == b)
print("a != b:", a != b)
print("a >= b:", a >= b)
print("a <= b:", a <= b)
```

### Result:-

The program correctly evaluated all the relational expressions between the two given inputs.



## 3/7/25 (C) Check Logical Conditions Across Multiple Inputs.

Aim:-

To create a Python program that uses logical operators (and, or, not) to evaluate conditions across three test scores

Algorithm:-

1. Start the program.
2. Accept three test scores from the user.
3. Use logical operators
  - If the candidate passed all tests (and)
  - If the candidate passed at least one test (or)
  - If the candidate failed all tests (not).
4. Display the results.
5. End the program.

Program:-

```
test 1 = int(input("Enter marks for Test 1:"))
test 2 = int(input("Enter marks for Test 2:"))
test 3 = int(input("Enter marks for Test 3:"))

print("Passed all tests:", test 1 > 40 and test 2 > 40 and
      test 3 > 40)

print("Passed at least one test:", test 1 > 40 or test 2 > 40
      or test 3 > 40)

print("Failed all tests:", not test 1 > 40 or test 2 > 40 or
      test 3 > 40))
```

VEL TECH - CSE	
EX NO,	1
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOICE (5)	5
NET TOTAL (5)	15
TOTAL	45

Result:-

The program effectively evaluated logical expressions and correctly identified pass/fail conditions based on test scores.