Assessment-01

Problem Statement:

To design and implement a program that performs basic arithmetic operations such as addition, subtraction, multiplication, and division. The program should handle user input, process the data accurately, and display the results efficiently.

Aim:

To write a program that takes two numbers as input and performs addition, subtraction, multiplication, and division using arithmetic operators.

Algorithm:

Step 1: Start

Step 2: Input Values for A and B

Step 3: Calculate SUM=A+B

Step 4: Calculate SUB=A-B

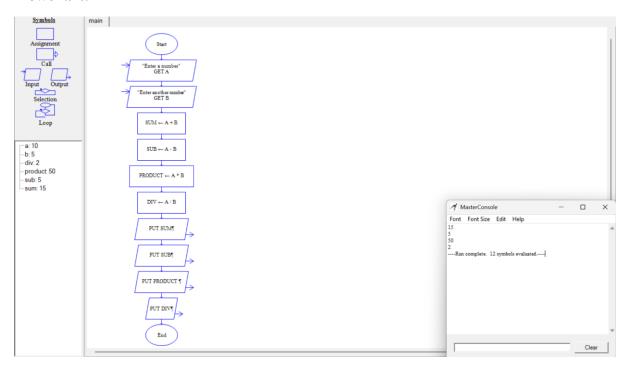
Step 5: Calculate PRODUCT=A*B

Step 6: Calculate DIV=A/B

Step 7: Display all results

Step 8: End

Flowchart:



```
Sample Program:
```

```
A = int(input("Enter first number: "))
B = int(input("Enter second number: "))
# Processing of operations:
addition = A + B
subtraction = A - B
multiplication = A * B
# Check division by zero:
if B != 0:
  division = A / B
else:
  division = "Undefined (division by zero not possible)"
# Output:
print("\nResults:")
print("Addition:", addition)
print("Subtraction:", subtraction)
print("Multiplication:", multiplication)
print("Division:", division)
```

Sample Input/Output:

```
= RESTART: C:/Users/ATHARV BISHT/Desktop/assignment.1.py
Enter first number: 10
Enter second number: 5
Results:
Addition: 15
Subtraction: 5
Multiplication: 50
Division: 2.0
```