



Shri Yashwantrao Bhonsale Education Society's  
**YASHWANTRAO BHONSALE INSTITUTE OF TECHNOLOGY**

**(DTE CODE : 3470) (MSBTE Code : 1742)**

Approved by AICTE, DTE & Affiliated to Mumbai University & MSBTE Mumbai  
(NBA Accredited ME, CE, EE Diploma Programs)

## **Practical No 4**

### **Aim**

Write a Python program to explore basic arithmetic operations. The program should prompt the user to enter two numbers and then perform addition, subtraction, multiplication, division, and modulus operations on those numbers. The results of each operation should be displayed to the.

### **Apparatus / Software Required**

- Python Interpreter (Python 3.14.2)

### **Theory**

#### ♦ **input()** Function

- Used to accept input from the user.
- Input is received as a string.

#### ♦ **float()** Function

- Converts input into decimal values.
- Allows operations on real numbers.

#### ♦ **Variables**

- Used to store values and results.
- Examples: `num1`, `num2`, `addition`, `division`

#### ♦ **print()** Function

- Displays output on the screen.



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◆ **Arithmetic Operators Used**

| Operator | Name           | Description                           | Example        |
|----------|----------------|---------------------------------------|----------------|
| +        | Addition       | Adds two numbers                      | $10 + 5 = 15$  |
| -        | Subtraction    | Subtracts second number from first    | $10 - 5 = 5$   |
| *        | Multiplication | Multiplies two numbers                | $10 * 5 = 50$  |
| /        | Division       | Returns quotient (float value)        | $10 / 4 = 2.5$ |
| %        | Modulus        | Returns remainder                     | $10 \% 3 = 1$  |
| //       | Floor Division | Returns quotient without decimal part | $10 // 3 = 3$  |
| **       | Exponentiation | Raises number to the power            | $2 ** 3 = 8$   |

## Algorithm

1. Start
2. Input first number (num1)
3. Input second number (num2)
4. Calculate Addition → **sum = num1 + num2**
5. Calculate Subtraction → **diff = num1 - num2**
6. Calculate Multiplication → **prod = num1 \* num2**
7. Calculate Division → **div = num1 / num2**
8. Calculate Modulus → **mod = num1 % num2**
9. Calculate Floor division → **mod = num1 // num2**
10. Calculate Floor division → **mod = num1 \*\* num2**
11. Display the results of all operations
12. Stop





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