



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 11

### Aim

Implement a simple Python calculator that takes user input and performs basic arithmetic operations (addition, subtraction, multiplication, division) using functions.

### Apparatus / Software Required

- Python Interpreter (Python 3.14.2)

### Theory

This practical demonstrates the use of functions in Python to perform basic arithmetic operations. A function is a reusable block of code that performs a specific task.

#### 1. Functions

- Functions help divide the program into smaller parts.
- Each operation (addition, subtraction, etc.) is defined as a separate function.
- Improves code readability and reusability.

👉 Example:

```
def add(a, b):  
    return a + b
```

#### 2. User Input

- The `input()` function is used to take values from the user.
- Values are converted into numbers using `float()`.

#### 3. Conditional Statements

- `if-elif-else` is used to select the operation based on user choice.

#### 4. Error Handling

- Division by zero is handled using a condition:

```
if b == 0:  
    return "Division by zero not allowed"
```

#### 5. Modular Programming

- Each task is handled by a separate function → makes program structured and easy to debug.





