

# PROJECT REPORT

## Project 2: Building a Basic Calculator

Organization: NextHikes IT Solutions

Course: Data Science & AI

### 1. Introduction:

This project develops a Basic Calculator using Python and Tkinter GUI library. It performs addition, subtraction, multiplication, and division operations.

### 2. Objective:

- Learn core Python concepts
- Understand Tkinter GUI development
- Build a desktop application
- Use GitHub for version control

### 3. Technologies Used:

- Python
- Tkinter
- Visual Studio Code
- GitHub

### 4. System Requirements:

- Python 3.x
- VS Code
- Basic Python knowledge

### 5. Project Description:

The application includes a display screen and clickable buttons for numbers and mathematical operations. The `eval()` function is used to calculate results.

### 6. Working:

- `Tk()` creates main window
- `Entry()` creates display screen
- `Button()` creates clickable buttons
- `mainloop()` runs the application

### 7. Learning Outcomes:

- Core Python programming
- GUI development
- Application structure understanding
- GitHub usage

### 8. Conclusion:

The project successfully demonstrates building a GUI-based calculator application using Python and Tkinter.