

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.