

Domain: Python Programming

Project 3: Simple Banking Application using Python

Project Title: Banking Operations using Python

Project Objective:

The main objective of this project is to create a GUI-based Python application that performs basic banking operations such as deposit, withdrawal, and balance inquiry. Using Python's Tkinter library for the interface, the project helps beginners understand the use of functions, conditional statements, event handling, and GUI design in real-world problem solving.

Technologies to Use:

- Programming Language: Python
- IDE: PyCharm / VS Code / IDLE
- GUI Framework: Tkinter (built-in with Python)
- Database (Optional): SQLite / MySQL for storing account and transaction details
- Python Version: Python 3.8 or above

Tasks Breakdown:

1. Setup Environment – Install Python and required libraries (Tkinter comes pre-installed).
2. Design Main Window – Create a Tkinter window with title and layout for the banking system.
3. Add Buttons for Options – Deposit, Withdraw, Check Balance, and Exit buttons on the GUI.
4. Deposit Function – Create an input box to enter an amount, update balance, and display confirmation.
5. Withdrawal Function – Input withdrawal amount, validate sufficient balance, and update account balance.
6. Balance Inquiry – Show the current balance using a Label or popup message (messagebox).
7. Exit Option – Implement a button that closes the application window safely.
8. (Optional – Advanced) Database Integration – Use SQLite/MySQL to save and retrieve account details and transaction logs.

Submission:

Submit the project folder in ZIP file.

Submit the .py source file.

The ZIP will includes all files that used to create the project and Project Report PDF file.