LAB 2

Task: Design a Simple Bank Account Management System

Objective:

Develop a basic bank account management system that allows users to manage different types of accounts and perform essential banking operations.

Requirements:

1. Account Types:

- o Implement three types of accounts:
 - Savings Account
 - Checking Account

2. Account Operations:

- o **Deposit**: Add funds to an account.
- o Withdraw: Remove funds from an account.
- o **Apply Interest**: Calculate and apply interest to applicable accounts.
- o **Transfer**: Transfer funds between accounts.

3. **OOP Concepts:**

- Utilize the Object-Oriented Programming (OOP) concepts covered so far in the course. This includes:
 - Classes and Objects: Define classes for different account types.
 - **Inheritance**: Use inheritance to manage shared functionality between account types.
 - **Encapsulation**: Ensure that account details are protected and only accessible through methods.

Implementation Guidelines:

• Keep the design simple and focus on applying OOP principles effectively.

Submission:

- Package your code in a file named [your name] lab2.py.
- Ship your code on this <u>drive folder</u>

Happy Hacking:)