

Assignment 9 - Encapsulation

Problem Statement:

Create a class called `BankAccount` that represents a simple bank account with the following properties:

1. Private Fields:

- `accountNumber` (String) – stores the account number.
- `balance` (double) – stores the current balance of the account.

2. Public Methods:

- `deposit(double amount)` – adds the specified amount to the account balance.
- `withdraw(double amount)` – subtracts the specified amount from the balance if there are sufficient funds; otherwise, print an error message.
- `getBalance()` – returns the current balance.
- `getAccountNumber()` – returns the account number.

Requirements:

- Ensure the `accountNumber` and `balance` fields are private and can only be accessed or modified through the provided methods.
- Create a main method to test creating a `BankAccount` instance, making deposits and withdrawals, and printing the account information.

Hints:

- Use a constructor to initialize the `accountNumber` and `balance`.
- Use the `getBalance()` and `getAccountNumber()` methods to retrieve information about the account.