Problem 3: Basic Banking System (Hard Level)

Description:

Create a Java program that implements a basic **banking system** with the following features:

- **Account creation** (Name, Account Number, Balance)
- Deposit and withdrawal operations
- Prevent overdraft by checking the balance before withdrawal
- **Use encapsulation** (private variables with public getters/setters)

Code:

```
import java.util.Scanner;
   public String getAccountNumber() {
           System.out.println("Deposit successful! Current Balance: " +
           System.out.println("Invalid deposit amount.");
           System.out.println("Withdrawal successful! Current Balance: " +
```

```
public class BankingSystem {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Initial Balance: ");
            System.out.println("\n1. Deposit\n2. Withdraw\n3. Exit\nChoose
            int option = scanner.nextInt();
            switch (option) {
                    System.out.print("Enter deposit amount: ");
                    double depositAmount = scanner.nextDouble();
                    account.deposit(depositAmount);
                    System.out.print("Enter withdrawal amount: ");
                    System.out.println("Exiting... Thank you for using the
                    System.out.println("Invalid option. Please try
```

Output:

```
"C:\Program Files\Java\jdk-22\bin\java.exe" "-javaagent:C
    Create Account:
    Name: Anshuman
    Account Number: 12477
<u>=</u>↓
    Initial Balance: 999999
    1. Deposit
偷
    2. Withdraw
    3. Exit
    Choose an option:
    Enter deposit amount: 1
    Deposit successful! Current Balance: 1000000.0
    1. Deposit
    2. Withdraw
    3. Exit
    Choose an option:
    Enter withdrawal amount: 1
    Withdrawal successful! Current Balance: 999999.0
    1. Deposit
    2. Withdraw
    Exit
    Choose an option:
    Exiting... Thank you for using the banking system.
```