PROJECT DOCUMENATION

Instructions:

1. Setup Your Project:

- Open your IDE and create a new project named SimpleBankingSystem.
- Design the BankAccount Class:
- Define a class BankAccount with private attributes for account holder's name, account number, and balance.
- Implement the following public methods:
 - deposit method to add money to the balance.
 - withdraw method to subtract money from the balance if sufficient funds are available.
 - getBalance method to return the current balance.
 - displayAccountInfo method to show account details.

Instructions:

Implement the Banking Interface:

- Create a simple text-based user interface in the main function.
- Provide menu options for:
- Creating a new account.
- Depositing money.
- Withdrawing money.
- Checking balance.
- Displaying account information.
- Testing Your System:
- Test each method in the BankAccount class thoroughly.
- Check how the system handles invalid inputs like withdrawing more than the balance or entering incorrect.

Challenges Faced and Their Solutions Managing Multiple Accounts:

- Challenge: Keeping track of multiple accounts and allowing operations on specific accounts.
- Solution: Use a vector to store BankAccount objects. Each account can be accessed by its account number.

Handling Invalid Inputs:

- Challenge: Ensuring that inputs like negative amounts for deposits and withdrawals are handled properly.
- Solution: Add validation checks in the deposit and withdraw methods to ensure the amount is positive and within valid limits.

Challenges Faced and Their Solutions

1. User Interface Navigation:

- Challenge: Creating an intuitive text-based interface for users to interact with the system.
- Solution: Use a menu-driven interface with clear instructions for each option, and handle user inputs appropriately.

2. Error Handling:

- Challenge: Handling errors gracefully, such as invalid account numbers or non-numeric input.
- Solution: Add error messages and checks to guide the user to correct inputs, ensuring the program does not crash.

3. Displaying Account Information:

- Challenge: Providing a clear and concise way to display account details.
- Solution: Implement the displayAccountInfo method to show all relevant account details in a formatted manner.

LinkedIn Post Link: https://www.linkedin.com/feed/update/urn:li:activity:7214011679758553090/ **GitHub Post Link:** https://github.com/Arubakhan 22/Handling-Data-Types-and-Variables