**Project Title: BANK MANAGEMENT SYSTEM**

Project Description: This project focuses on managing bank accounts and transactions. It includes features such as user authentication, account management, transaction management, and reporting. The project stores account records in a binary file.

Project Modules and Features:

**I. USER AUTHENTICATION**

1. **Login**
2. **Register**
3. **Exit**

**II. ACCOUNT MANAGEMENT**

* 1. **Wallet**
  2. **Profile**
  3. **View or Search Transactions history**
  4. **Sort transactions by ID**
  5. **Delete transactions by ID**
  6. **Log out**

**III. TRANSACTION MANAGEMENT**

1. **Deposit**
2. **Withdraw**
3. **Transaction History**
4. **View and Search**
5. **Delete**
6. **Exit**

**IV. REPORTING**

1. **Generate Account ID**
2. **Generate Transaction ID**
3. **Exit**

**Project UI Design**:  
**Welcome to the Bank Management System**

1. **Login**
2. **Register**
3. **Exit**

**Please choose (1-3):**

If the user selects 2, go to the registration process:  
Please enter your details to register:

**Username:  
Password:**

**Confirm Password:**

**Initial Deposit:**

Once the registration is complete, Account ID is generated, and return to the user authentication menu.

If the user selects 1, go to the login process:  
Please enter your username and password:

**Username:  
Password:**

If the entered username or password is incorrect, display a message "Invalid user."

If the entered username and password are correct, display the main menu:

**Main Menu**

1. **Wallet**
2. **Profile**
3. **View or Search Transactions history**
4. **Sort transactions by ID**
5. **Delete transactions by ID**
6. **Log out**  
   **Please choose (1-6):**

If the user selects 1, go to the wallet management menu:  
Account Management

**1. Deposit Money**

1. **Withdraw Money**
2. **Back**  
   **Please choose option (1-3):**

If the user selects 1, go to deposit money:  
 **Enter amount of money to deposit:**

If depositing is successful, display a message " depositing is successful."

If depositing is not successful, display an appropriate error message.

If the user selects 2, go to withdraw money:  
 **Enter amount of money to withdraw:**

If withdrawing is successful, display a message " depositing is successful."

If depositing is not successful, display an appropriate error message.

**If the user selects 3**:

Go back to menu

**2. Profile**

Display:

Username:

Account ID:

Password:

**3. View or Search Transactions history**

Display all tractions between deposit and withdraw money with transaction IDs.

**4. Sort transactions by ID**

Letting user input checking transaction by sorting like ascending and descending by ID from big number to small or from small number to big number.

1.Ascending

2.Descening

3.Back

**5. Delete transactions by ID**

**Enter transaction ID want to delete:**

If delete successful output it is deleted

If is not successful output not found and go back to menu

**6. Log out**

To log out this account and go back to First interface

1.Login

2.Register

3.Exit

**3. Exit**

Exiting the program [Closed]