

W10 - Take Home Assignment

Create a UC Bank program that will display the following menu:

```
Welcome to UC Bank
Please choose from the following options:
1. Add New Account
2. Check Account Details
3. Add / Subtract Account Balance
4. Remove Account
5. Exit
Enter your choice:
```

If the user selects menu 1 (add new account), the program will prompt the user to input the account number, account name, and account balance as shown in the following example. After the user inputs all the details for the new account, the program will display the message: **"Successfully added new account."**

```
Welcome to UC Bank
Please choose from the following options:
1. Add New Account
2. Check Account Details
3. Add / Subtract Account Balance
4. Remove Account
5. Exit
Enter your choice: 1
Enter account number: 381938203
Enter account name: Shasa Zhania
Enter account balance: 1200000000
Successfully added new account
```

If the user selects menu 2 (check account details), the program will display all saved accounts. The user can choose a specific account to view its details by inputting the list number of that account. If the inputted list number does not exist, the program will display an error message: **"No such account."** The interface will look as follows.

```
Welcome to UC Bank
Please choose from the following options:
1. Add New Account
2. Check Account Details
3. Add / Subtract Account Balance
4. Remove Account
5. Exit
Enter your choice: 2
(1) 381938203 - Shasa Zhanian
(2) 1927728274 - Gio Jaibruh
(3) 29484628 - Tasya Vennya
(4) 192839088 - Farasya Baba
Select Account to display (1 - 9): 4
Account Number: 192839088
Account Name: Farasya Baba
Balance: 12000.0
```

```
Welcome to UC Bank
Please choose from the following options:
1. Add New Account
2. Check Account Details
3. Add / Subtract Account Balance
4. Remove Account
5. Exit
Enter your choice: 2
(1) 1239428 - Lala Lisa
Select Account to display (1 - 9): 2
No such account
```

If the user selects menu 3, they can add or subtract the balance of a selected account. To subtract the balance, the user can input a negative sign (-) before the number. An example display is as follows. If the user subtracts a number that is greater than the balance, the program will display an error message **“You do not have enough balance”**.

```
Welcome to UC Bank
Please choose from the following options:
1. Add New Account
2. Check Account Details
3. Add / Subtract Account Balance
4. Remove Account
5. Exit
Enter your choice: 3
(1) 381938203 - Shasa Zhanian
(2) 1927728274 - Gio Jaibruh
(3) 29484628 - Tasya Vennya
(4) 192839088 - Farasya Baba
Choose account (1 - 9): 4
Enter balance to add / subtract: 20000
Successfully added / subtract new balance
New Balance: 32000.0
```

```
Welcome to UC Bank
Please choose from the following options:
1. Add New Account
2. Check Account Details
3. Add / Subtract Account Balance
4. Remove Account
5. Exit
Enter your choice: 3
(1) 381938203 - Shasa Zhanian
(2) 1927728274 - Gio Jaibruh
(3) 29484628 - Tasya Vennya
(4) 192839088 - Farasya Baba
Choose account (1 - 9): 4
Enter balance to add / subtract: -2000
Successfully added / subtract new balance
New Balance: 30000.0
```

```
Welcome to UC Bank
Please choose from the following options:
1. Add New Account
2. Check Account Details
3. Add / Subtract Account Balance
4. Remove Account
5. Exit
Enter your choice: 3
(1) 1239428 - Lala Lisa
Choose account (1 - 9): 1
Enter balance to add / subtract: -20000
You do not have enough balance
```

If the user selects menu 4, the program will display the list of available accounts, and the user can choose an account to delete. After deleting an account, the program will display the remaining accounts. If the inputted list number does not exist, the program will display an error message: **"No such account."** The interface will look as follows.

```
Welcome to UC Bank
Please choose from the following options:
1. Add New Account
2. Check Account Details
3. Add / Subtract Account Balance
4. Remove Account
5. Exit
Enter your choice: 4
(1) 381938203 - Shasa Zhanian
(2) 1927728274 - Gio Jaibruh
(3) 29484628 - Tasya Vennya
(4) 192839088 - Farasya Baba
Choose account to remove: (1 - 9): 3
Successfully removed account
Remaining accounts:
(1) 381938203 - Shasa Zhanian
(2) 1927728274 - Gio Jaibruh
(3) 192839088 - Farasya Baba
```

```
Welcome to UC Bank
Please choose from the following options:
1. Add New Account
2. Check Account Details
3. Add / Subtract Account Balance
4. Remove Account
5. Exit
Enter your choice: 4
(1) 1239428 - Lala Lisa
Choose account to remove: (1 - 9): 2
No such account
```

The program will continuously display the menu in a loop until the user selects menu 5 (exit). Upon selecting exit, the program will display the message: "Thank you for using UC Bank." and the program will terminate.

Program displays menu repeatedly, so the menu will keep appearing until the user chooses to exit:

```
Welcome to UC Bank
Please choose from the following options:
1. Add New Account
2. Check Account Details
3. Add / Subtract Account Balance
4. Remove Account
5. Exit
Enter your choice: 1
Enter account number: 381938203
Enter account name: Shasa Zhanía
Enter account balance: 120000000
Successfully added new account
```

Back to main menu

```
Welcome to UC Bank
Please choose from the following options:
1. Add New Account
2. Check Account Details
3. Add / Subtract Account Balance
4. Remove Account
5. Exit
Enter your choice: 1
Enter account number: 1927728274
Enter account name: Gio Jaibruh
Enter account balance: 180000000
Successfully added new account
```

Back to main menu

```
Welcome to UC Bank
Please choose from the following options:
1. Add New Account
2. Check Account Details
3. Add / Subtract Account Balance
4. Remove Account
5. Exit
Enter your choice: 3
```

(1) 381938203 - Shasa Zhanía

(2) 1927728274 - Gio Jaibruh

(3) 29484628 - Tasya Vennya

(4) 192839088 - Farasya Baba

Choose account (1 - 9): 4

Enter balance to add / subtract: -2000

Successfully added / subtract new balance

New Balance: 30000.0

Back to main menu

```
Welcome to UC Bank
Please choose from the following options:
1. Add New Account
2. Check Account Details
3. Add / Subtract Account Balance
4. Remove Account
5. Exit
Enter your choice: 4
```

The program terminates when the user selects exit:

Back to main menu

```
Welcome to UC Bank
Please choose from the following options:
1. Add New Account
2. Check Account Details
3. Add / Subtract Account Balance
4. Remove Account
5. Exit
Enter your choice: 5
Thank you for using UC Bank
```

Scoring:

- The program can accept repeated inputs. 0 / 3
- The program can add new accounts correctly. 0 / 5
- The program can display a list account 0 / 5
- The program can display a detail account 0 / 5
- The program can add and subtract account balances. 0 / 5
- The program can remove accounts correctly. 0 / 5
- The program can display all error messages. 0 / 5
- The program can terminate. 0 / 2
- Variable names are appropriate 0 / 2
- The program runs correctly 0 / 3
- Use ArrayList correctly -20 / 0
- Use Class correctly -20 / 0
- Plagiarism -100 / 0