

Assignment III

Firstly that program is about a virtual ATM. User have an bank account at txt file and user can deposit or withdraw money, also can see own balance.

In this code, firstly, have menu() function. That print all options to the console as check balance, deposit money, withdraw money or exit. Then takes an input from user to that what user wants to do according to menu screen.

If user chose first option that is check_balance() function. This function print current balance to the screen. While printing screen get balance from get_balance() function. That function gets balance from account.txt file. If file does not exist, create a new one with the initial balance (100.00).

If user chose second option that is deposit_money() function. This function gets input from user that how many money user wants to add to the bank account then it get_balance() again and sum of current_balance and deposit amount and call update balance function. That function gets balance and update it at account.txt file.

If user choose third option that is withdraw_money() function. This function also gets input from user that how many money user wants to withdraw from bank account then it get_balance() again and subtrack current_balance and withdraw money. If user wants to withdraw more money than bank account has, Then user gets error. If balance is enough for withdraw, then update balance again and save new balance to account.txt file.

Final option is exit. That is simply end of program.

```
goksu@goksu:~/Desktop/CSE-102/Assignment3$ gcc --ansi assignment3.c -o as3
goksu@goksu:~/Desktop/CSE-102/Assignment3$ ./as3
----- Virtual ATM -----
1. Check Balance
2. Deposit Money
3. Withdraw Money
4. Exit
Choose an option: 1
Current balance: 100.00
goksu@goksu:~/Desktop/CSE-102/Assignment3$ ./as3
----- Virtual ATM -----
1. Check Balance
2. Deposit Money
3. Withdraw Money
4. Exit
Choose an option: 2
Enter amount to deposit: 50
Deposit successful! New balance: 150.00 TRY.
goksu@goksu:~/Desktop/CSE-102/Assignment3$ ./as3
----- Virtual ATM -----
1. Check Balance
2. Deposit Money
3. Withdraw Money
4. Exit
Choose an option: 3
Enter amount to withdraw: 70
Withdraw successful! New balance: 80.00 TRY.
goksu@goksu:~/Desktop/CSE-102/Assignment3$ ./as3
----- Virtual ATM -----
1. Check Balance
2. Deposit Money
3. Withdraw Money
4. Exit
Choose an option: 3
Enter amount to withdraw: 100
Insufficient funds! Your balance is only 80.00 TRY.
goksu@goksu:~/Desktop/CSE-102/Assignment3$ ./as3
----- Virtual ATM -----
1. Check Balance
2. Deposit Money
3. Withdraw Money
4. Exit
Choose an option: 1
Current balance: 80.00
goksu@goksu:~/Desktop/CSE-102/Assignment3$
```

```
20     check_balance();
21 }
22 else if (option == 2) {
23     deposit_money();
24 }
25 else if (option == 3) {
26     withdraw_money();
27 }
28 else if (option == 4) {
29     printf("Exiting program. See you later.\n");
30     return 1;
31 }
32 else {
33     printf("Invalid input. Please try again later!\n");
34     return -1;
35 }
36
37
38
39 }
40
41
42 double get_balance() {
43     double balance;
44     double initial_balance = 100.00;
45     int check_input;
46
47     FILE * open_file;
48     open_file = fopen("account.txt", "r");
49
50     /* Check open file and get balance */
51
52     if (open_file == NULL) {
53         open_file = fopen("account.txt", "w");
54         if (open_file == NULL) {
55             printf("Error while opening file.\n");
56             return 0;
57         }
58     }
```