**Report**

I used two windows forms for my project. The first form has the role like the main computer of a bank, you can create many different ATMs from the first form. Every time when you create an ATM it is created on different thread.

The main logic of the program is based in the second form.   
In my second form I have a class in which I have a 3D array in which I have inserted all the data about the accounts. Every account has own account number and own pin code and amount with funds.

The first menu asks the user to enter his account number. With different functions and mechanisms I check if the account number is correct. If the account number is correct the user is asked to enter his pin code. And again with a function I check if the pin code is correct. I think that I have good human computer interaction because every time when the user enter a wrong account number or wrong pin code there is displayed a warning message. After the user enters a correct pin number he will see the main menu.

When the user is in the main menu he will see the following options:

Withdraw Money.

Check Balance.

Return Card.

Withdraw Money options lead to another menu where the user can select what amount of money to withdraw. If the user select amount which is bigger that the amount in his account there will appear a warning message. If the amount is not bigger than the amount in his account a calculation will be made and the new balance will be showed after the user withdraw that amount.

The Check Balance option is created with the purpose to show the user his balace.

There is also a Return Card Option which is used to return the card of the user. And when the user clicks on that button the first menu will appear.   
I have not managed the problem with the data race but I have multiple threads and multiple ATMs. I think that if we had a database with the accounts, it would be easier to create better solution.