1. Declare and initialize public static variable double balance, withdraw, deposit, amount, initDept, withdrawLimit = 20000, initLimit = 2000, creditlimit = 100000.

String name, user, password, id, userTempt, passTempt, userLine, passLine, IDInput, surname, balanceTempt.

Boolean global\_Loop = true, login\_loop = true.

Scanner InputScanner = new Scanner(System.in.

int PINInput, balanceLine.

Date currDate = new Date();

1. Initialize File IDFile = new File("IDlist.txt"); File PINFile = new File("PINlist.txt"); File nameFile = new File("namelist.txt"); File surnameFile = new File("surnamelist.txt"); File balanceFile = new File("balanceFile.txt");
2. Check if the initialized files doesn’t exist then create the files.
3. Initialize Scanner IDScanner = new Scanner(IDFile); Scanner PINScanner = new Scanner(PINFile); Scanner nameScanner = new Scanner(nameFile); Scanner surnameScanner = new Scanner(surnameFile); Scanner balanceScanner = new Scanner(balanceFile);
4. If the IDFile and PINFile have data in a line output “Welcome to the UM Banking System.” Display “ID:” and “PIN:”. Ask for Input ID and PIN.
5. While the IDFile and PINFile have data in a line initialize userLine = IDScanner.nextLine() and passLine = PINScanner.nextLine(), if not then call CreateAcc(), create a new account.
6. If the IDFile and PINFile data is equal to the input ID and PIN then output “Welcome ” + name + surname and call the ATMmain(), output “[1]Withdraw, [2] Deposit, [3] Balance Inquiry, [3] Transaction History, [5] Exit”. Ask input choice. Set input choice as Switch condition with 1,2,3,4,5 cases.
7. If choice is 1 then output “Amount to withdraw: ”. Ask for Input amount.
8. While input amount <= 0 output “Minimum withdrawal is $200.” Ask for another input amount.
9. While amount > withdrawLimit then output “Maximum withdrawal is $20000”. Ask for another input amount.
10. If the balance > 0 and if the balance - amount >= 300 then call withdraw() method.
11. Initialize double oldBal = balance. balance -= amount. Output “You successfully withdrawn + amount”. Call fileChecker(), check if the file transaction History doesn’t exist then create a file. Call StoreBalance(), store the updated balance in the balance file. Call storeTransaction(), store date, oldBal, amount, and the updated balance in the Transaction History file.
12. If choice is 2 then ouput “Amount to deposit: ”. Ask input deposit.
13. While deposit <= 0 then ouput “Invalid amount.”. Ask for input deposit again.
14. If deposit < creditlimit and balance + deposit <= creditlimit then initialize double oldBal = balance.

Balance += deposit. Then output “You deposited: deposit“.

Call fileChecker(), if the file doesn’t Transaction History file exist then create a file.

Call storeBalance(), store the updated balance to the Balance File.

Call storeTransaction(), store the date, oldBal, deposit and the updated balance in the Transaction History File.

Or else output “Your deposit amount exceeded the bank limit($200000) of your account. Please enter appropriate amount”.

1. If choice is 3 then output “balance: “ + balance.
2. If choice is 4 then call fileChecker(), if the Transaction History file doesn’t exist then create the file.

Output “Transaction History:”.

Output the Transaction History File’s contents.

If Transaction History is empty then output “There is no transaction yet.”.

1. If choice is 5 then break.
2. If choice is default then ouput “Choose correctly!” and ask for Input choice again.
3. If ID and PIN is not equal to ID and PIN then output “Incorrect ID or PIN.” “[1] Try again [2] Create Account”. Ask for an input 1 and 2, if 1 then ask for input ID and PIN again, if 2 then call createAcc(), Output “CREATE ACCOUNT:”. Ask for Input name, surname, PINInput and initDept.

While input initDept < initlimit then output “Minimum initial deposit is $2000.”

Ask for input initDept again.

Initialize IDinput to 6 random numbers.

FileWrite the Input in their own respective files.

Output “-----INFORMATION-----“.  
Output “ID: " + IDInput + "\nName: " + name + "\nSurname: " + surname + "\nInitial deposit: " + initDept + "\n" + "REMEMBER THE ID AND PIN!\n".