**package** ATM;

**import** java.io.\*;

**import** java.util.\*;

**public** **class** Saving {

**private** **double** balance;

**private** BankAccount account;

**private** Scanner fin = **null**;

**private** File inputFile = **null**;

**private** PrintWriter fout = **null**;

**private** String[] line = **new** String[4];

**private** String firstLine;

**private** String delimeter = **null**;

**private** **int** accountNum;

**public** Saving(){

**this**.account = **new** BankAccount();

**this**.inputFile = **new** File("src\\ATM\\bankData.txt");

**this**.delimeter = **this**.account.getDelimeter();

**this**.firstLine = "Account Pin Checking Saving";

//connect file to stream

**try**{

fin = **new** Scanner(inputFile);

}**catch**(FileNotFoundException e){

System.*exit*(0);

}

//read through file to search for account

**int** i = 0;

fin.nextLine(); //gets rid of columns titles

**while**(fin.hasNextLine()){

**this**.line[i] = fin.nextLine();

i++;

}

}//end constructor

**public** **double** getBalance(){

**this**.balance = runThroughData();

**return** **this**.balance;

}

**public** **void** deposit(**double** amount){

**this**.balance += amount;

writeToFile();

}

**public** **void** withdraw(**double** amount){

**this**.balance -= amount;

writeToFile();

}

**public** **double** runThroughData(){

//account.line[1].replace(String.valueOf(account.getAccountNum()), String.valueOf(this.balance));

**double** balance = 0;

**for**(**int** i = 0; i < **this**.line.length; i++){

String temp = **this**.line[i].split(**this**.delimeter)[0];

**if**(**this**.accountNum == Integer.*valueOf*(temp)){

temp = **this**.line[i].split(**this**.delimeter)[3];

balance = Integer.*valueOf*(temp);

**return** balance;

}//end if

}//end for loop

**return** 0;

}

**public** **void** setAccountNum(**int** accountNum){

**this**.accountNum = accountNum;

}

**public** **void** writeToFile(){

**try**{

fout = **new** PrintWriter(inputFile);

}**catch**(FileNotFoundException e){

System.*exit*(0);

}

ArrayList<String> writeToFileArray = **new** ArrayList<String>();

//convert string array to array list

**for**(**int** i = 0; i < line.length; i++){

writeToFileArray.addAll(Arrays.*asList*(**this**.line[i].split(**this**.delimeter)));

}

//modify account balance

**for**(**int** i = 0; i < writeToFileArray.size(); i++){

**if**(**this**.accountNum == Integer.*valueOf*(writeToFileArray.get(i).trim()))

writeToFileArray.set(i+3, String.*valueOf*(String.*format*("%.0f", **this**.balance)));

}

//write modified data to file

fout.println(firstLine);

**for**(**int** i = 0; i < writeToFileArray.size(); i++){

**if**(i != 0 && i % 4 == 0)

fout.println();

fout.print(writeToFileArray.get(i) + "\t\t");

}

fout.close();

}

}//end class