**Loan Main Method**

package week7assignment;

import java.io.File;

import java.io.FileNotFoundException;

import java.text.DecimalFormat;

import java.util.NoSuchElementException;

import java.util.Scanner;

/\*\*

 \*

 \* @author

 \*/

public class Loan {

 /\*\*

 \* @param args the command line arguments

 \*/

 public static void main(String[] args) {

 //setting format for money

 DecimalFormat money = new DecimalFormat("$#,##0.00");

 //instatiating new CarLoan object

 CarLoan newLoan = new CarLoan(18875.0);

 System.out.println(newLoan);

 try {

 int numb = 0;//variable for number of payments

 double totPaid = 0;//variable for total amount paid

 Scanner pay = new Scanner(new File("Payments.txt"));//reading in file

 while (pay.hasNext()) {

 numb++;

 double payment = pay.nextInt();//reading each line

 totPaid += payment;

 newLoan.payment(payment);//passing information to payment method

 System.out.println("\n Payment " + numb + " is " + money.format(payment)

 + ". Remaining balance is: " + newLoan);

 System.out.println("\t Total of payments made is : " + money.format(totPaid));

 }

 pay.close();

 } catch (FileNotFoundException fnfe) {

 System.out.println("File not found");

 } catch (NoSuchElementException nsee) {

 System.out.println("File not found");

 } catch (IllegalStateException ise) {

 System.out.println("File not found");

 }

 }

}

**Bank Account Class**

/\*

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 \* and open the template in the editor.

 \*/

package week7assignment;

import java.text.DecimalFormat;

/\*\*

 \*

 \* @author

 \*/

public class BankAccount {

 public final DecimalFormat money = new DecimalFormat("$#,##0.00");

 protected double balance;

 public BankAccount() {

 balance = 0.0;

 }

 public BankAccount(double startBalance) {

 deposit(startBalance);

 }

 public double getBalance() {

 return balance;

 }

 public void deposit(double amount) {

 if (amount >= 0.0) {

 balance += amount;

 } else {

 System.err.println("Loan Balance must be positive!");

 }

 }

 public void payment(double amount) {

 if (amount >= 0.0 && amount <= balance) {

 balance = balance - amount;

 } else {

 System.err.println("Payment amount must be positive, and "

 + "cannot be grater than balace!");

 }

 }

 @Override

 public String toString() {

 return ("Balance on car loan is " + money.format(balance));

 }

}

**Car Loan Class**

/\*

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 \*/

package week7assignment;

/\*\*

 \*

 \* @author

 \*/

public class CarLoan extends BankAccount {

 public CarLoan() {

 super();

 }

 public CarLoan(double startBalance) {

 super(startBalance);

 }

}