//CAMERA RENTAL APPLICATION

```
package main;
import java.util.ArrayList;
import java.util.Scanner;
import java.util.Arrays;

class WelcomeNote {
	WelcomeNote() {
	System.out.println("+------------------------------+");
	System.out.println("| WELCOME TO CAMERA RENTAL APP |");
	System.out.println("+------------------------------+\n");
	}
	boolean loginPage() {
	Scanner input = new Scanner(System.in);
	System.out.print("PLEASE LOGIN TO CONTINUE - \nUSERNAME - ");
	String username = input.nextLine();
	System.out.print("PASSWORD - ");
	String password = input.nextLine();
	if (username.equals("admin") && password.equals("admin123")) {
	return true;
	} else {
	System.out.println("INCORRECT USERNAME OR PASSWORD");
	return loginPage();
	}
	}
}
package main;
import java.util.ArrayList;
import java.util.Scanner;
import java.util.Arrays;


 class Camera {

 private Scanner scanner = new Scanner(System.in);
 void options() {
 String[] opt = {
 "1. ADD",
 "2. REMOVE",
 "3. VIEW MY CAMERAS",
 "4. GO TO PREVIOUS MENU"
 };
 for (String option : opt) {
 System.out.println(option);
 }
 try
 {
 String choice = scanner.nextLine();
 switch(Integer.parseInt(choice))
 {
 case 1:
 add();
options();
break;
 case 2:
```

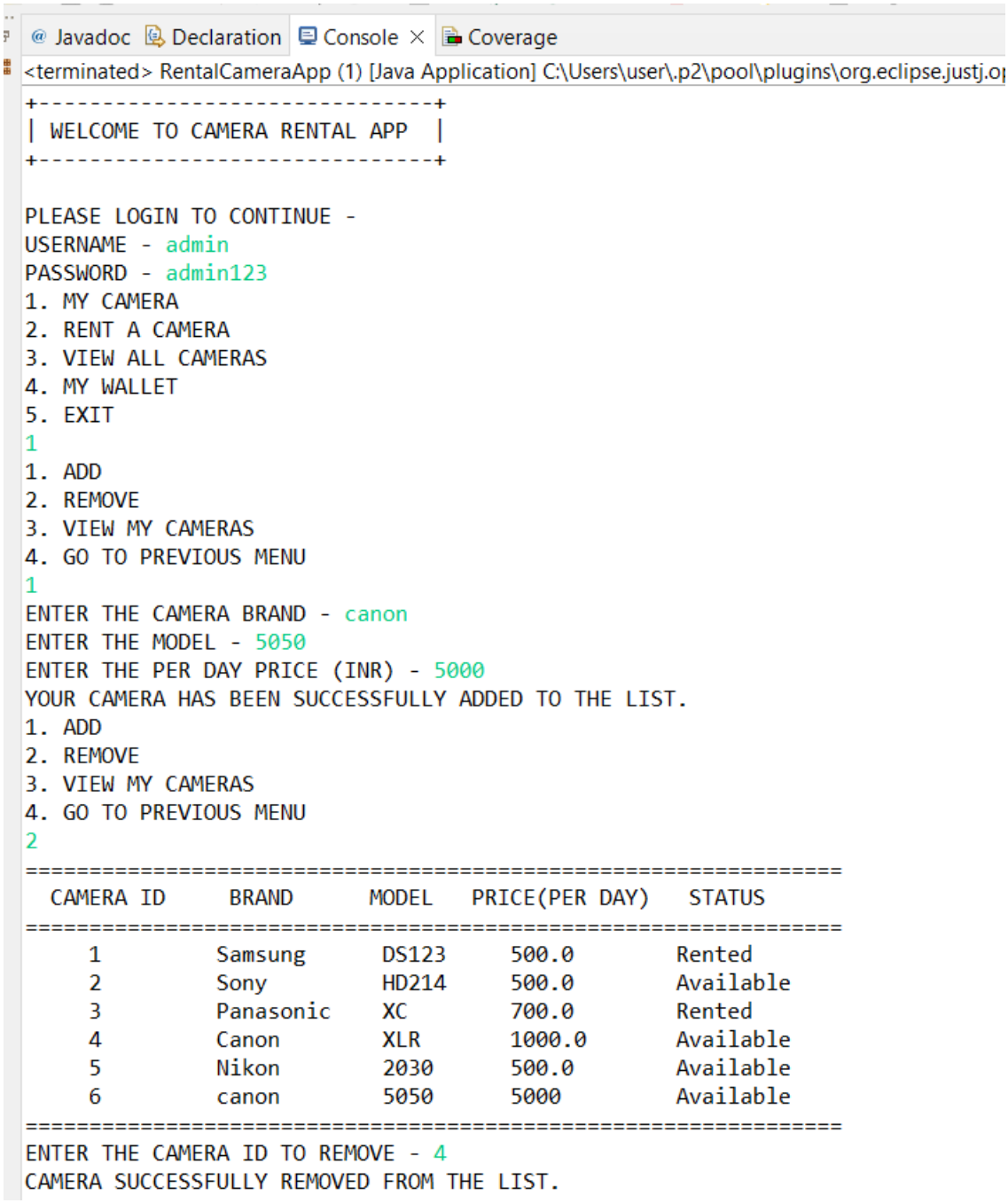
```
 removeCam();
options();
break;
 case 3:
 viewMycam();
options();
break;
 case 4:
 Main.mainMenu();
 break;
 default:
 System.out.println("INVALID OPTION");
 options();
 break;
 }
 }catch (Exception e) {
 System.out.println("An error occurred. Please try again.");
 }
 }
 void add() {
 int lastId = 0;
 if (!Main.cameraList.isEmpty()) {
 ArrayList<String> lastRow =
Main.cameraList.get(Main.cameraList.size() - 1);
 lastId = Integer.parseInt(lastRow.get(0));
 }
 ArrayList<String> row = new ArrayList<>();
 String id = String.valueOf(lastId + 1);
 System.out.print("ENTER THE CAMERA BRAND - ");
 String brand = scanner.nextLine();
 System.out.print("ENTER THE MODEL - ");
 String model = scanner.nextLine();
 System.out.print("ENTER THE PER DAY PRICE (INR) - ");
 String price = scanner.nextLine();
 String status = "Available";
 row.add(id);
 row.add(brand);
 row.add(model);
 row.add(price);
 row.add(status);
 Main.cameraList.add(row);
 System.out.println("YOUR CAMERA HAS BEEN SUCCESSFULLY ADDED TO THE
LIST.");
 }
 void viewMycam()
 {

System.out.println("==========================================================
========="
);
 System.out.println(" CAMERA ID BRAND MODEL PRICE(PER DAY) STATUS ");

System.out.println("==========================================================
========="
);
 for (ArrayList<String> row : Main.cameraList) {
 System.out.printf(" %-4s %-10s %-6s %-7s %-8s %n",
 row.get(0), row.get(1), row.get(2), row.get(3), row.get(4));
 }
```

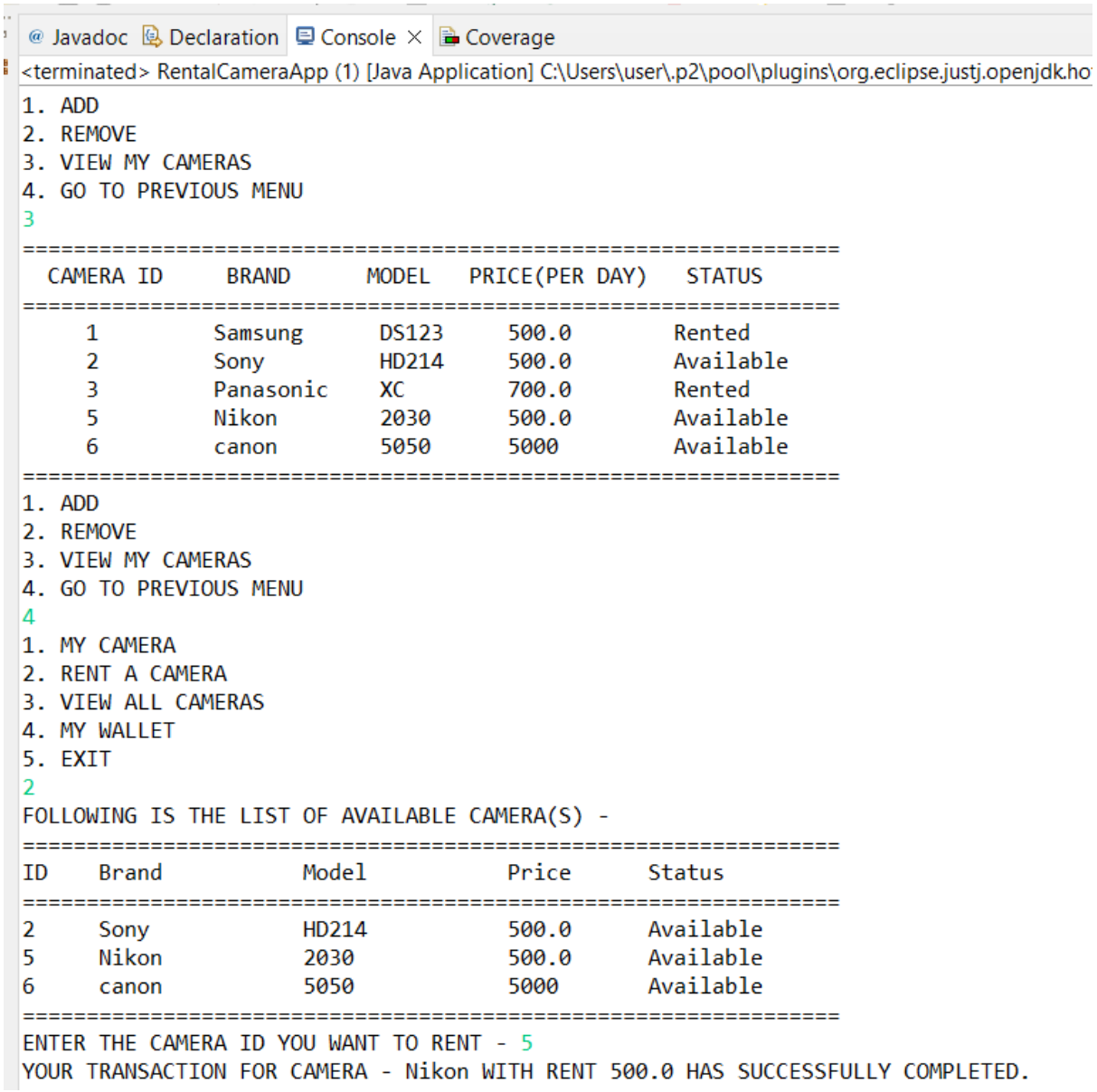
```
System.out.println("=============================================================
=========="
);
 }
 void removeCam()
 {
 viewMycam();
 Scanner scanner = new Scanner(System.in);
 System.out.print("ENTER THE CAMERA ID TO REMOVE - ");
 String idToRemove = scanner.nextLine();
 boolean found = false;
 for (ArrayList<String> row : Main.cameraList)
 {
 if (row.get(0).equals(idToRemove))
 {
 Main.cameraList.remove(row);
 found = true;
 break;
 }
 }
 if (found) {
 System.out.println("CAMERA SUCCESSFULLY REMOVED FROM THE LIST.");
 }
 else {
 System.out.println("CAMERA ID " + idToRemove + " NOT FOUND IN THE LIST.");
 }
 }

}

package main;
import java.util.ArrayList;
import java.util.Scanner;
import java.util.Arrays;


public class Wallet {

        double balance;
        Wallet() {
        this.balance = 1052;
        }
        void displayBalanceAndDeposit() {
        try
        {
        Scanner input = new Scanner(System.in);
        System.out.println("YOUR CURRENT WALLET BALANCE IS - INR."+
balance);
        System.out.print("DO YOU WANT TO DEPOSIT MORE AMOUNT TO YOUR
WALLET?(1.YES 2.NO) - ");
        int choice = input.nextInt();
        if (choice==1) {
        System.out.print("ENTER THE AMOUNT (INR) - ");
        double amount = input.nextDouble();
        balance += amount;
        System.out.println("YOUR WALLET BALANCE UPDATED SUCCESSFULLY.
CURRENT WALLET BALANCE - INR."+balance);
        } else {
        System.out.println("No money deposited.");
        }
        }catch (Exception e) {
```

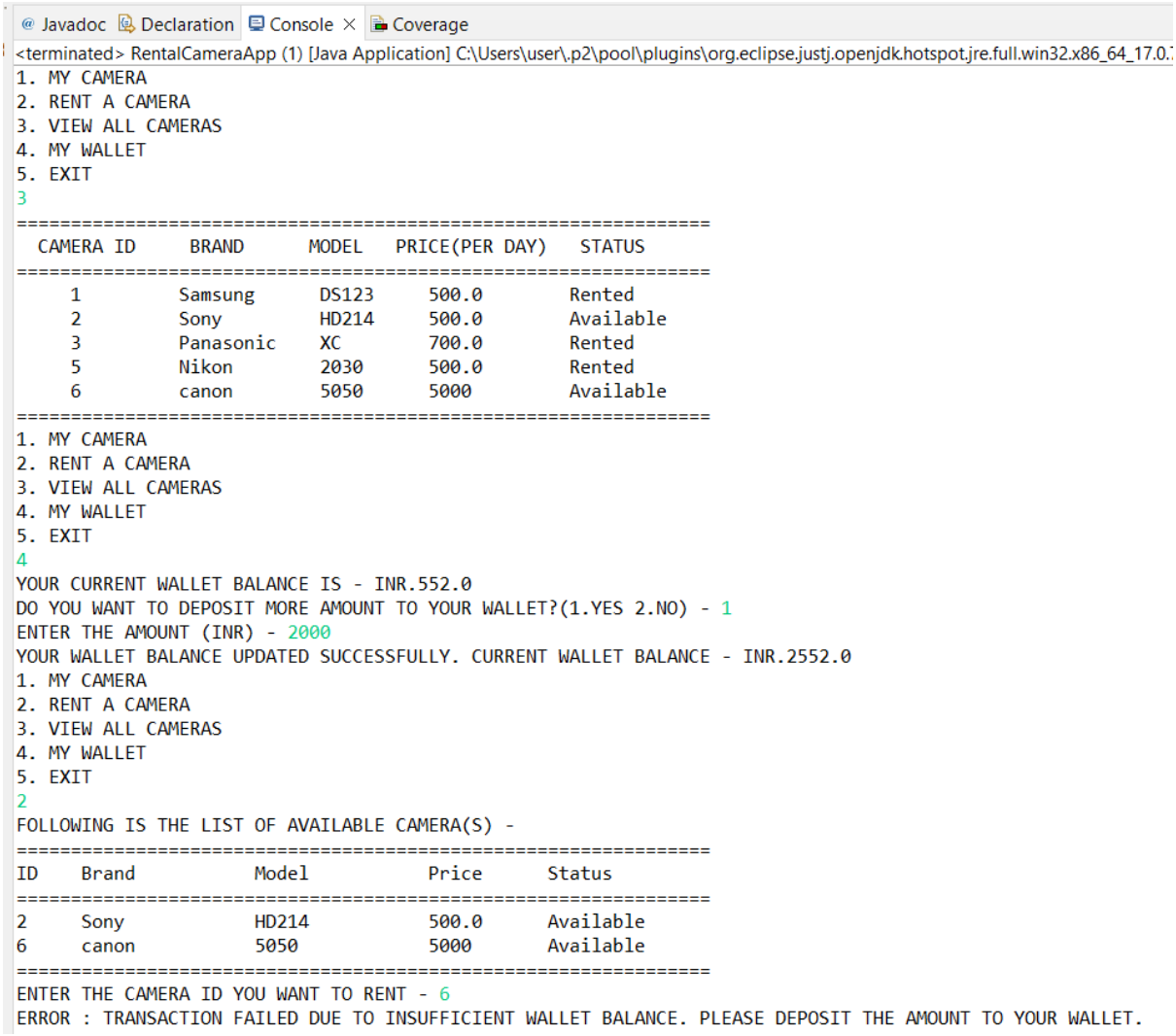
```
        System.out.println("An error occurred. Please try again.");
        }
        }
        boolean hasEnoughBalance(double amount) {
        return balance >= amount;
        }
       }
package main;
import java.util.ArrayList;
import java.util.Scanner;
import java.util.Arrays;

class CameraRental
{
 void displayAvailableCameras() {
 System.out.println("FOLLOWING IS THE LIST OF AVAILABLE CAMERA(S) - ");

System.out.println("==========================================================
========="
);
 System.out.printf("%-5s %-15s %-15s %-10s %-8s\n", "ID", "Brand", "Model",
"Price", "Status");

System.out.println("==========================================================
========="
);
 for (ArrayList<String> camera : Main.cameraList) {
 String status = camera.get(4);
 if (status.equals("Available")) {
 System.out.printf("%-5s %-15s %-15s %-10s %-8s\n",
 camera.get(0), camera.get(1), camera.get(2), camera.get(3),
camera.get(4));
 }
 }

System.out.println("==========================================================
========="
);
 }
 void rentCamera(Wallet wallet_obj)
 {
 displayAvailableCameras();
 Scanner input = new Scanner(System.in);
 //MyWallet wallet_ob = new MyWallet();
 System.out.print("ENTER THE CAMERA ID YOU WANT TO RENT - ");
 String id = input.nextLine();
 boolean found = false;
 for (ArrayList<String> camera : Main.cameraList) {
 if (camera.get(0).equals(id) && camera.get(4).equals("Available")) {
 double price = Double.parseDouble(camera.get(3));
 if(wallet_obj.hasEnoughBalance(price))
 {
 camera.set(4, "Rented");
 found = true;
 System.out.println("YOUR TRANSACTION FOR CAMERA -"+camera.get(1)+ " WITH
RENT " + price + " HAS SUCCESSFULLY COMPLETED.");
 wallet_obj.balance -= price;
 break;
 }
 else
 {
```

```
 found = true;
 System.out.println("ERROR : TRANSACTION FAILED DUE TO INSUFFICIENT WALLET
BALANCE. PLEASE DEPOSIT THE AMOUNT TO YOUR WALLET. ");
 break;
 }
 }
 }
 if (!found) {
 System.out.println("CAMERA WITH ID " + id + " IS NOT FOUND.");
 }
 }
}
package main;


import java.util.ArrayList;
import java.util.Scanner;
import java.util.Arrays;
public class Main {
 private static boolean loginStatus = false;
 private static Camera optObj = new Camera();
 private static CameraRental rent_obj = new CameraRental();
 public static Wallet wallet_obj = new Wallet();
 public static ArrayList<ArrayList<String>> cameraList = new ArrayList<>(
 Arrays.asList(
 new ArrayList<>(Arrays.asList("1", "Samsung", "DS123", "500.0",
"Rented")),
 new ArrayList<>(Arrays.asList("2", "Sony", "HD214", "500.0",
"Available")),
 new ArrayList<>(Arrays.asList("3", "Panasonic", "XC", "700.0", "Rented")),
 new ArrayList<>(Arrays.asList("4", "Canon", "XLR", "1000.0",
"Available")),
 new ArrayList<>(Arrays.asList("5", "Nikon", "2030", "500.0", "Available"))


 )
 );
 public static void main(String[] args) {

 Main obj = new Main();
 WelcomeNote loginObj = new WelcomeNote();
 if (!loginStatus) {
 loginStatus = loginObj.loginPage();
 }
 obj.mainMenu();
 }
 static void mainMenu() {
 String[] mainMenu = {
 "1. MY CAMERA",
 "2. RENT A CAMERA",
 "3. VIEW ALL CAMERAS",
 "4. MY WALLET",
 "5. EXIT"
 };
 for (String option : mainMenu) {
 System.out.println(option);
 }
 try
 {
 Scanner input = new Scanner(System.in);
 int opt = input.nextInt();
```

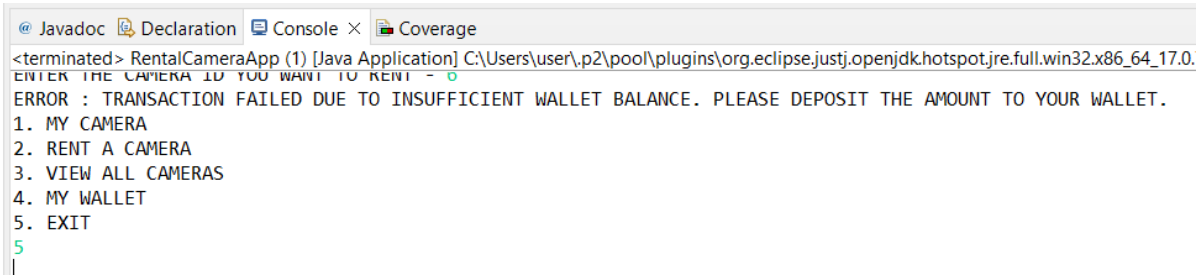
```
 switch (opt)
 {
 case 1:
 optObj.options();
break;
 case 2:
 rent_obj.rentCamera(wallet_obj);
 mainMenu();
break;
 case 3:
 optObj.viewMycam();
mainMenu();
break;
 case 4:
 wallet_obj.displayBalanceAndDeposit();
mainMenu();
break;
 case 5:
 break;
 default:
 System.out.println("INVALID OPTION..!");
 mainMenu();
 break;
 }
 }catch (Exception e) {
 System.out.println("An error occurred. Please try again.");
 }

 }
}
```


Javadoc
Declaration
Console
Coverage
<terminated> RentalCameraApp (1) [Java Application] C:\Users\user\.p2\pool\plugins\org.eclipse.justj.o
+--------------------------------+
| WELCOME TO CAMERA RENTAL APP |
+--------------------------------+
PLEASE LOGIN TO CONTINUE -
USERNAME - admin
PASSWORD - admin123
1. MY CAMERA
2. RENT A CAMERA
3. VIEW ALL CAMERAS
4. MY WALLET
5. EXIT
1
1. ADD
2. REMOVE
3. VIEW MY CAMERAS
4. GO TO PREVIOUS MENU
1
ENTER THE CAMERA BRAND - canon
ENTER THE MODEL - 5050
ENTER THE PER DAY PRICE (INR) - 5000
YOUR CAMERA HAS BEEN SUCCESSFULLY ADDED TO THE LIST.
1. ADD
2. REMOVE
3. VIEW MY CAMERAS
4. GO TO PREVIOUS MENU
2
CAMERA ID BRAND MODEL PRICE(PER DAY) STATUS
1 Samsung DS123 500.0 Rented
2 Sony HD214 500.0 Available
3 Panasonic XC 700.0 Rented
4 Canon XLR 1000.0 Available
5 Nikon 2030 500.0 Available
6 canon 5050 5000 Available
ENTER THE CAMERA ID TO REMOVE - 4
CAMERA SUCCESSFULLY REMOVED FROM THE LIST.


Javadoc
Declaration
Console
Coverage
<terminated> RentalCameraApp (1) [Java Application] C:\Users\user\.p2\pool\plugins\org.eclipse.justj.openjdk.ho
1. ADD
2. REMOVE
3. VIEW MY CAMERAS
4. GO TO PREVIOUS MENU
3
CAMERA ID BRAND MODEL PRICE(PER DAY) STATUS
1 Samsung DS123 500.0 Rented
2 Sony HD214 500.0 Available
3 Panasonic XC 700.0 Rented
5 Nikon 2030 500.0 Available
6 canon 5050 5000 Available
1. ADD
2. REMOVE
3. VIEW MY CAMERAS
4. GO TO PREVIOUS MENU
4
1. MY CAMERA
2. RENT A CAMERA
3. VIEW ALL CAMERAS
4. MY WALLET
5. EXIT
2
FOLLOWING IS THE LIST OF AVAILABLE CAMERA(S) -
ID Brand Model Price Status
2 Sony HD214 500.0 Available
5 Nikon 2030 500.0 Available
6 canon 5050 5000 Available
ENTER THE CAMERA ID YOU WANT TO RENT - 5
YOUR TRANSACTION FOR CAMERA - Nikon WITH RENT 500.0 HAS SUCCESSFULLY COMPLETED.



```
Javadoc  Declaration  Console  Coverage
<terminated> RentalCameraApp (1) [Java Application] C:\Users\user\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.
1. MY CAMERA
2. RENT A CAMERA
3. VIEW ALL CAMERAS
4. MY WALLET
5. EXIT
3
================================================================
  CAMERA ID     BRAND      MODEL    PRICE(PER DAY)   STATUS
================================================================
     1         Samsung      DS123     500.0        Rented
     2         Sony         HD214     500.0        Available
     3         Panasonic    XC        700.0        Rented
     5         Nikon        2030      500.0        Rented
     6         canon        5050      5000         Available
================================================================
1. MY CAMERA
2. RENT A CAMERA
3. VIEW ALL CAMERAS
4. MY WALLET
5. EXIT
4
YOUR CURRENT WALLET BALANCE IS - INR.552.0
DO YOU WANT TO DEPOSIT MORE AMOUNT TO YOUR WALLET?(1.YES 2.NO) - 1
ENTER THE AMOUNT (INR) - 2000
YOUR WALLET BALANCE UPDATED SUCCESSFULLY. CURRENT WALLET BALANCE - INR.2552.0
1. MY CAMERA
2. RENT A CAMERA
3. VIEW ALL CAMERAS
4. MY WALLET
5. EXIT
2
FOLLOWING IS THE LIST OF AVAILABLE CAMERA(S) -
================================================================
ID    Brand           Model           Price      Status
================================================================
2     Sony            HD214           500.0      Available
6     canon           5050            5000       Available
================================================================
ENTER THE CAMERA ID YOU WANT TO RENT - 6
ERROR : TRANSACTION FAILED DUE TO INSUFFICIENT WALLET BALANCE. PLEASE DEPOSIT THE AMOUNT TO YOUR WALLET.
```



```
Javadoc  Declaration  Console  Coverage
<terminated> RentalCameraApp (1) [Java Application] C:\Users\user\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.
ENTER THE CAMERA ID YOU WANT TO RENT - 6
ERROR : TRANSACTION FAILED DUE TO INSUFFICIENT WALLET BALANCE. PLEASE DEPOSIT THE AMOUNT TO YOUR WALLET.
1. MY CAMERA
2. RENT A CAMERA
3. VIEW ALL CAMERAS
4. MY WALLET
5. EXIT
5
```