CAMERA RENTAL APPLICATION :

SOURCE CODE:

```
package phase1project;

import java.util.ArrayList;

import java.util.Scanner;

class Data {


    private int camera_id;

    private String brand;

    private String model;

    private double price;

    private boolean status;


     Data(int camera_id, String brand, String model, double price, boolean Available) {

            this.camera_id = camera_id;

            this.brand = brand;

            this.model = model;

            this.price = price;

            this.status = Available;

      }


       public int getId() {

          return camera_id;

    }
```

```
    public String getBrand() {
      return brand;
  }

    public String getModel() {
      return model;
  }

   public double getPrice() {
      return price;
  }

    public boolean isAvailable() {
       return status;
   }

       public void setAvailable(boolean Available) {
          this.status = Available;
    }
}

          public class CameraRentalApplication {
                    public static void main(String[] args) {
                // TODO Auto-generated method stub
                double INR = 10000;
```

```
                String username, password;


                Scanner s = new Scanner(System.in);

System.out.println("**********************************************************************"
);
                System.out.println("            Welcome to Camera Rental App\n     ");

System.out.println("**********************************************************************"
);


                System.out.print("Enter username:");// username:user
                username = s.nextLine();
                System.out.print("Enter password:");// password:user
                password = s.nextLine();
                if (username.equals("himabindu") && password.equals("Bindu@123")) {
                System.out.println("Login Successful");

System.out.println("************************************************************");
                ArrayList<Data> list = new ArrayList<>();
                list.add(new Data(1, "Canon", "DSLR", 1200, true));
                list.add(new Data(2, "Nikon", "SRL", 550, false));
                list.add(new Data(3, "LG", "Digital", 2600, true));
                list.add(new Data(4, "Lenova", "XPL", 3000, true));
                list.add(new Data(5, "Ricoh", "Panasonic", 3350, true));
                list.add(new Data(6, "Sony", "2130", 2700, false));
                list.add(new Data(7, "Samsung", "DL", 5600, true));
```

```
list.add(new Data(8, "Leica", "Sigma", 1200, true));
list.add(new Data(9, "oneplus", "Digi", 7000,true));
list.add(new Data(10,"unicon", "Mega",3500,true));
// int l=list.size();
int x = 0;
do {
int option;
Scanner sc = new Scanner(System.in);
// public void main_option()
System.out.println("1.MY CAMERA");
System.out.println("2.RENT A CAMERA");
System.out.println("3.VIEW ALL CAMERA");
System.out.println("4.MY WALLET");
System.out.println("5.EXIT");
System.out.println("Select your option : ");
option = sc.nextInt();

switch (option) {
case 1:
int k = 0;
do {
int choose;
System.out.println("1.ADD");
System.out.println("2.REMOVE");
System.out.println("3.VIEW MY CAMERA");
```

```
                System.out.println("4.GO TO PREVIOUS MENU");
                System.out.println("Enter your choice : ");
                choose = sc.nextInt();

                switch (choose) {

                case 1:
                System.out.println("Enter Camera ID: ");
                int camera_id = sc.nextInt();
                System.out.println("Enter Camera Brand: ");
                String brand = sc.next();
                System.out.println("Enter Camera Model: ");
                String model = sc.next();
                System.out.println("Enter Camera Price per day: ");
                double price = sc.nextFloat();
                boolean Available = true;
                list.add(new Data(camera_id, brand, model, price, Available));
                System.out.println("Successfully Added");
                System.out.println("You want view camera List please enter '1' else enter '0': ");
                int m = sc.nextInt();
                if (m == 1) {

System.out.println("*************************************************************");
                System.out.println("cameraID\t Brand\t Model\t Price\t Status");

System.out.println("*************************************************************")
;
```

```
                    for (int i = 0; i < list.size(); i++) {
                    Data data = list.get(i);
                    String status = data.isAvailable() ? "Available" : "Rented";
                    System.out.println(data.getId() + "\t\t" + data.getBrand() + "\t" +
                    data.getModel()
                    + "\t" + data.getPrice() + "\t" + status);
                    }

                    }
System.out.println("*****************************************************************");
                    break;
                    case 2:
                    System.out.println("Which one you want to remove 'Enter camera Id': ");
                    int cameraId = sc.nextInt();
                    for (int i = 0; i < list.size(); i++) {
                    Data camera = list.get(i);
                    if (camera.getId() == cameraId) {
                    list.remove(i);
                    System.out.println("Camera Sucessfully Removed From The List");
                    break;
                    }
                    }
                    break;
                    case 3:
```

```
System.out.println("**********************************************************************
***");
                    System.out.println("cameraID\t Brand\t Model\t Price\t Status");

System.out.println("**********************************************************************
*******");
                    for (int i = 0; i < list.size(); i++) {
                    Data data = list.get(i);
                    String status = data.isAvailable() ? "Available" : "Rented";
                    System.out.println(data.getId() + "\t\t" + data.getBrand() + "\t" +
                   data.getModel()
                    + "\t" + data.getPrice() + "\t" + status);
                    }
                    case 4:
                    x = 1;

System.out.println("**********************************************************************
**********");
                    break;
                    }
                    System.out.println("If u want add or remove camera please enter '1' else '0':");
                    k = sc.nextInt();
                    } while (k == 1);
                    break;

                    case 2:
```

```
System.out.println("*************************************************************************
********");

                    System.out.println("cameraID\t Brand\t Model\t Price\t Status");

System.out.println("*************************************************************************
************");
                    for (Data data : list) {
                    if (data.isAvailable()) {
                    String status = data.isAvailable() ? "Available" : "Rented";

                    System.out.println(data.getId() + "\t\t" + data.getBrand() + "\t" +
                   data.getModel() + "\t"
                    + data.getPrice() + "\t" + status);
                    }
                    }

System.out.println("*************************************************************************
***************");
                    int index = -1;
                    System.out.println("Which one you want to rent 'Entre camera Id': ");
                    int cameraId = sc.nextInt();
                    for (int i = 0; i < list.size(); i++) {
                    Data camera = list.get(i);
                    if (camera.getId() == cameraId) {
                    index = i;
                    break; // Found the camera, exit the loop
```

```
                }

                }

                if (index != -1) {

                Data a = list.get(index);

                if (a.getPrice() <= INR) {

                System.out.println("Rented Successfully");

                a.setAvailable(false);

                INR = INR - a.getPrice();

                System.out.println("Current wallet balance - " + INR);

                } else {

                System.out.println("ERROR: Transction Failed Due To Insufficient Wallet Balance. Please Deposit The Amount To Your Wallet.");

                }

                } else {

                System.out.println("Camera with ID " + cameraId + " is not found in the list.");

                }


                break;


                case 3:

System.out.println("**********************************************************************");

                System.out.println("cameraID\t Brand\t Model\t Price\t Status");

System.out.println("**********************************************************************");
```

```
                    for (int i = 0; i < list.size(); i++) {
                    Data data = list.get(i);
                    String status = data.isAvailable() ? "Available" : "Rented";
                    System.out.println(data.getId() + "\t\t" + data.getBrand() + "\t" +
                   data.getModel() + "\t"
                    + data.getPrice() + "\t" + status);
                    }

System.out.println("**********************************************************************
*********");
                    break;
                    case 4:
                    System.out.println("Your current wallet balance is :" + INR);
                    System.out.println("Do you want to deposit more amount to your wallet?(1.Yes 2.No)-
");
                    int m = sc.nextInt();
                    if (m == 1) {
                    System.out.println("Enter deposit amount: ");
                    double addAmount = sc.nextDouble();
                    INR = INR + addAmount;
                    System.out.print("Your Wallet balance updated successfully...");
                    }
                    System.out.println("Current wallet balance - " + INR);
                    break;
                    }
                    System.out.println("If u want continue (1.Yes 2.No)- ");
                    x = sc.nextInt();
```

```
                } while (x == 1);

                }

                else {

                System.out.println("Authentication Failed");

                }

                System.out.println("Thank you for visiting camera rental");


System.out.println("**********************************************************************
****");

        }



}
```