



VRSEC

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SIDDHARTHA ENGINEERING COLLEGE
(Sponsored by Siddhartha Academy of General & Technical Education)

B. Tech – Artificial Intelligence and Data Science

20AI&DS3304 – JAVA PROGRAMMING

Title: Car Rental Agency

**Home Assignment
Submitted by,**

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Second Year

CAR RENTAL AGENCY

Implementation:

List of Packages and Classes used along with the Files.

List of Packages used:

- ❖ VR_cars

List of Interfaces used:

- ❖ Functional Interface funint

List of Classes used:

- ❖ VR_car_rentals(main)
- ❖ demo2
- ❖ Car_types
- ❖ EnterDetails
- ❖ Type

Files:

- ❖ Data.txt

Source Code:

Package VR_cars:

demo2.java

```
package VR_cars;

import java.util.;
import java.lang.*;
import java.io.*;

public class demo2 {

    public void details() {

        Scanner sc = new Scanner(System.in);

        EnterDetails e = new EnterDetails();

        Car_types ct = new Car_types();
```

```
        int pp = e.Details();  
        ct.car(pp);  
    }  
}
```

Car_types.java

```
package VR_cars;  
  
import java.util.*;  
import java.lang.*;  
import java.io.*;  
  
public class Car_types  
{  
    public int car(int pp)  
    {  
        Scanner sc = new Scanner(System.in);  
        System.out.println("-----");  
        System.out.println("1->ROLLS ROYCE");  
        System.out.println("2->AUDI");  
        System.out.println("3->SUZUKI");  
        System.out.println("4->SWIFT");  
        System.out.println("5->TATA");  
  
        System.out.println("Enter the car type you want -> enter  
corresponding numb");  
  
        int choicel = sc.nextInt();  
        int k=choicel;  
  
        System.out.println("Car type is succesfully selected");  
  
        Type t = new Type();  
        t.comfy(k,pp);  
        return choicel;  
    }  
}
```

EnterDetails.java

```
package VR_cars;

import java.util.*;
import java.lang.*;
import java.io.*;

public class EnterDetails {
    public int Details() {
        String Ptime, Pdate, Pdes, dy;
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter The Required details:");
        System.out.print("Enter Pickup Location:");
        Pdes = sc.nextLine();
        System.out.print("Enter Pickup Date:");
        Pdate = sc.nextLine();
        System.out.print("Enter Pickup Time:");
        Ptime = sc.nextLine();
        System.out.print("Enter the No.of days:");
        dy = sc.nextLine();
        Random r = new Random();
        int rand = r.nextInt(1000);
        try {
            FileWriter fw = new FileWriter("data.txt", true);
            BufferedWriter bw = new BufferedWriter(fw);
            bw.write("\n" + rand + "," + Pdes + "," + Pdate + "," +
Ptime + "," + dy);
            System.out.println("Booking Successful your id is " +
rand);
            bw.close();
        } catch (IOException e) {
```

```
        System.out.println("Booking failed!");
        e.printStackTrace();
    }
    return Integer.parseInt(dy);
}
}
```

Type.java

```
package VR_cars;

import java.util.*;
import java.util.*;
import java.lang.*;
import java.lang.*;

funint interface

interface funint
{
    void calc(int x,int dy);
}

public class Type {

    public void comfy(int k,int dy) {
        Scanner sc = new Scanner(System.in);
        String m1[]=new String[5];
        String m2[]=new String[5];
        String m3[]=new String[5];
        String m4[]=new String[5];
        String m5[]=new String[5];

        System.out.println("-----");
        System.out.println("Enter Your Comfort Type");
        System.out.println("1->AC TYPE");
        System.out.println("2->NON-AC TYPE");
    }
}
```

Home Assignment

```
int choice = sc.nextInt();
if(choice == 1)
{
    System.out.println("Here are Your Ac CARS Available
Models");
    if(k==1)
    {
        m1[0]="Rolls Royce 1 (4000/- PER DAY)";
        m1[1]="Rolls Royce 2 (5000/- PER DAY)";
        m1[2]="Rolls Royce 3(60000/- PER DAY)";
        System.out.println("1->" +m1[0]);
        System.out.println("2->" +m1[1]);
        System.out.println("3->" +m1[2]);
    }
    if(k==2)
    {
        m2[0]="AUDI 1(4000/- PER DAY)";
        m2[1]="AUDI 2(5000/- PER DAY)";
        m2[2]="AUDI 3(6000/- PER DAY)";
        System.out.println("1->" +m2[0]);
        System.out.println("2->" +m2[1]);
        System.out.println("3->" +m2[2]);
    }
    if(k==3)
    {
        m3[0]="SUZUKI 1(4000/- PER DAY)";
        m3[1]="SUZUKI 2(5000/- PER DAY)";
        m3[2]="SUZUKI 3(6000/- PER DAY)";
        System.out.println("1->" +m3[0]);
        System.out.println("2->" +m3[1]);
        System.out.println("3->" +m3[2]);
    }
}
```

Home Assignment

```
    }
    if (k==4)
    {
        m4[0]="SWIFT 1 (4000/- PER DAY) ";
        m4[1]="SWIFT 2 (5000/- PER DAY) ";
        m4[2]="SWIFT 3 (6000/- PER DAY) ";

        System.out.println("1->" + m4[0]);
        System.out.println("2->" + m4[1]);
        System.out.println("3->" + m4[2]);
    }
    if (k==5)
    {
        m5[0]="TATA 1 (4000/- PER DAY) ";
        m5[1]="TATA 2 (5000/- PER DAY) ";
        m5[2]="TATA 3 (6000/- PER DAY) ";

        System.out.println("1->" + m5[0]);
        System.out.println("2->" + m5[1]);
        System.out.println("3->" + m5[2]);
    }

    System.out.println("Enter The model of the car you
want");

    int x=sc.nextInt();

    System.out.println("Succesfully Booked.....");

    funint c=(int x3,int y)->{ if(x3==1)
    {
        System.out.println("The
Total amount for Your trip is :"+4000*y);
    }
    if(x3==2)
    {
        System.out.println("The
Total amount for Your trip is :"+5000*y);
```

Home Assignment

```
        }
        if (x3==3)
        {
            System.out.println("The
Total amount for Your trip is :"+6000*y);
        }

    };

    c.calc(x,dy);

}

if (choice == 2)
{
    System.out.println("Here are Your NON-AC CARS");

    if (k==1)
    {
        m1[0]="Non Ac Rolls Royce 1 (2000/- PER DAY)";
        m1[1]="Non Ac Rolls Royce 2 (3000/- PER DAY)";
        m1[2]="Non Ac Rolls Royce 3 (4000/- PER DAY)";

        System.out.println("1->"+m1[0]);
        System.out.println("2->"+m1[1]);
        System.out.println("3->"+m1[2]);
    }
    if (k==2)
    {
        m2[0]="Non Ac AUDI 1 (2000/- PER DAY)";
        m2[1]="Non Ac AUDI 2 (3000/- PER DAY)";
        m2[2]="Non Ac AUDI 3 (4000/- PER DAY)";

        System.out.println("1->"+m2[0]);
        System.out.println("2->"+m2[1]);
```


Home Assignment

```
        System.out.println("3->" + m2[2]);
    }
    if (k == 3)
    {
        m3[0] = "Non Ac SUZUKI 1 (2000/- PER DAY) ";
        m3[1] = "Non Ac SUZUKI 2 (3000/- PER DAY) ";
        m3[2] = "Non Ac SUZUKI 3 (4000/- PER DAY) ";
        System.out.println("1->" + m3[0]);
        System.out.println("2->" + m3[1]);
        System.out.println("3->" + m3[2]);
    }
    if (k == 4)
    {
        m4[0] = "Non Ac SWIFT 1 (2000/- PER DAY) ";
        m4[1] = "Non Ac SWIFT 2 (3000/- PER DAY) ";
        m4[2] = "Non Ac SWIFT 3 (4000/- PER DAY) ";
        System.out.println("1->" + m4[0]);
        System.out.println("2->" + m4[1]);
        System.out.println("3->" + m4[2]);
    }
    if (k == 5)
    {
        m5[0] = "Non Ac TATA 1 (2000/- PER DAY) ";
        m5[1] = "Non Ac TATA 2 (3000/- PER DAY) ";
        m5[2] = "Non Ac TATA 3 (4000/- PER DAY) ";
        System.out.println("1->" + m5[0]);
        System.out.println("2->" + m5[1]);
        System.out.println("3->" + m5[2]);
    }
    System.out.println("Enter The model of the car you
want");
```

Home Assignment

```
int x1=sc.nextInt();

System.out.println("Succesfully Booked.....");

funint f=(int x2,int y1)->
    { if(x2==1)
        {
            System.out.println("The
Total amount for Your trip is :"+2000*y1);
        }
        if(x2==2)
        {
            System.out.println("The
Total amount for Your trip is :"+3000*y1);
        }
        if(x2==3)
        {
            System.out.println("The
Total amount for Your trip is :"+4000*y1);
        }

    };

f.calc(x1,dy);
}
```

```
}
}
```

VR_car_rentals.java(main)

```
import java.util.*;
import java.lang.*;
import java.io.*;
import VR_cars.*;
```

```
class VR_car_rentals {  
    public static void main(String args[]) {  
        VR_cars.demo2 demo = new VR_cars.demo2();  
        demo.details();  
    }  
}
```

Output :

```
C:\Users\hp\Desktop\java_alm>java VR_car_rentals  
Enter The Required details:  
Enter Pickup Location:Dubai  
Enter Pickup Date:02-01-2023  
Enter Pickup Time:4:00pm  
Enter the No.of days:10  
Booking Successful your id is 260  
-----  
1->ROLLS ROYCE  
2->AUDI  
3->SUZUKI  
4->SWIFT  
5->TATA  
Enter the car type you want ->Press corresponding numb  
1  
Car type is succesfully selected  
-----  
Enter Your Comfort Type  
1->AC TYPE  
2->NON-AC TYPE  
1  
Here are Your Ac CARS Available Models  
1->Rolls Royce 1 (4000/- PER DAY)  
2->Rolls Royce 2 (5000/- PER DAY)  
3->Rolls Royce 3(60000/- PER DAY)  
Enter The model of the car you want  
2  
Succesfully Booked.....  
The Total amount for Your trip is :50000
```

```
C:\Users\hp\Desktop\java_alm>javac VR_car_rentals.java
```

```
C:\Users\hp\Desktop\java_alm>java VR_car_rentals
```

```
Enter The Required details:
```

```
Enter Pickup Location:Guntur
```

```
Enter Pickup Date:12-12-2022
```

```
Enter Pickup Time:10:00
```

```
Enter the No.of days:3
```

```
Booking Successful your id is 965
```

```
-----
```

```
1->ROLLS ROYCE
```

```
2->AUDI
```

```
3->SUZUKI
```

```
4->SWIFT
```

```
5->TATA
```

```
Enter the car type you want ->Press corresponding numb
```

```
2
```

```
Car type is succesfully selected
```

```
-----
```

```
Enter Your Comfort Type
```

```
1->AC TYPE
```

```
2->NON-AC TYPE
```

```
2
```

```
Here are Your NON-AC CARS
```

```
1->Non Ac AUDI 1(2000/- PER DAY)
```

```
2->Non Ac AUDI 2(3000/- PER DAY)
```

```
3->Non Ac AUDI 3(4000/- PER DAY)
```

```
Enter The model of the car you want
```

```
3
```

```
Succesfully Booked.....
```

```
The Total amount for Your trip is :12000
```



data - Notepad

File Edit Format View Help

```
287,vij,02-01-2022,10:00,4
825,Kanuru,2-12-2022,4:30,4
405,autonagar,03-12-2022,3:40,3
581,huf,4-5-22,12:00,3
459,Kankipadu,28-5-23,4:00pm,30
55,kanuru,12-11-2022,10:00pm,2
168,Guntur,12-03-23,10:00,3
445,ele,23-32-32,23:00,3
755,guntur,12-12-2023,10:00,4
684,eluru,12-2-23,11:00,2
965,Guntur,12-12-2022,10:00,3
260,Dubai,02-01-2023,4:00pm,10
```

Result:

The java program for booking a car from a car rental agency is successfully completed and executed with the necessary requirements.