

# ***CAR RENTAL SYSTEM***

## **Group Members:**

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## **Problem Statement:**

The Manual Car Rental System provides services only during office hours.

So, customers have

limited time to make any transactions or reservation of the cars. The existence of the online car

rental systems nowadays have overcome the limitation of the business operation hour.

Commonly faced inconvenience by users is that to rent a car a prospective renter must first go to the nearest office to register as a client.

A user can rent a car in Mumbai, Delhi and Bangalore from the various options available.

So our Car Rental System provides renting of a car at fingertips 24/7.

## **CODE:**

```
#include<iostream>
#include<string>
#include<string.h>
#include<algorithm>
using namespace std;
class Cars
{
    public:
        string name;
        string loc;
        string num;
        int km;
        string city,coupon;
        string start_date,end_date;
```

```
string type,color,brand,number;
string decide;
int amt=0,disc=0;
int days;
```

```
void display()
```

```
{
    cout<<"***** RENT YOUR CAR !! *****"<<endl;
    cout<<"***** Car Brands Available *****"<<endl;
    cout<<"1.\t"<<"Maruti Suzuki"<<"\tSUV"<<endl;
    cout<<"2.\t"<<"Skoda"<<"\t\tSedan"<<endl;
    cout<<"3.\t"<<"Renault"<<"\t\tSedan"<<endl;
    cout<<"4.\t"<<"Toyota"<<"\t\tSUV"<<endl;
    cout<<"5.\t"<<"KIA"<<"\t\tSUV"<<endl;
    cout<<"6.\t"<<"Hyundai"<<"\t\tSedan"<<endl;
    cout<<"7.\t"<<"Honda"<<"\t\tSUV"<<endl;
    cout<<"8.\t"<<"Mahindra"<<"\tSUV"<<endl;
    cout<<"9.\t"<<"TATA"<<"\t\tSedan"<<endl;
    cout<<"10.\t"<<"INDICA"<<"\t\tSedan"<<endl;
}
```

```
void user_input()
```

```
{
    cout<<"Customer Name:"<<endl;
    getline(cin,name);
    cout<<"Customer Contact Number:"<<endl;
    getline(cin,num);
    if(num.length()==10)
    {
        cout<<"";
    }
    else
    {
        cout<<"Re-enter 10-Digit Number:"<<endl;;
        cin>>num;
    }
    cout<<"Location Required"<<endl;
    cin>>loc;
```

```

    cout<<"Enter Start Date (dd/mm/yyyy): "<<endl;
    cin>>start_date;
    cout<<"Enter End Date (dd/mm/yyyy): "<<endl;
    cin>>end_date;
}
void options()
{
    int ch;
    cout<<"Choose the Car(Sr.No): ";
    cin>>ch;
    switch(ch)
    {
        case 1:
        {
            brand="MARUTI SUZUKI";
            type="SUV";
            color="RED";
            cout<<"MARUTI SUZUKI"<<endl;
            cout<<"Enter number of kilometers traveled in a day:"<<endl;
            cin>>km;
            cout<<"Enter number of days"<<endl;
            cin>>days;
            int price_m=2;
            int price_d=2;
            int price_b=3;
            cout<<"Price in Mumbai is ₹2/km"<<endl;
            cout<<"Price in Delhi is ₹2/km"<<endl;
            cout<<"Price in Bangalore is ₹3/km"<<endl;
            cout<<"Enter your city: "<<endl;
            cin>>city;
            transform(city.begin(), city.end(), city.begin(), ::tolower);
            cout<<"Enter Coupon Code if applicable:"<<endl;
            cin>>coupon;
            transform(coupon.begin(),coupon.end(),coupon.begin(),::tolower);
            if(city=="mumbai")
            {
                if(coupon=="flat10")

```

```
{
    amt=(2*km*days)-((2*km*days)*0.1);
    number="MH 04 HP 6420";
}
else if(coupon=="flat20")
{
    amt=(2*km*days)-((2*km*days)*0.2);
    number="MH 04 LP 6420";
}
else
{
    amt=(2*km*days);
    number="MH 04 LP 6420";
}
}
else if(city=="delhi")
{
    if(coupon=="flat10")
    {
        amt=(2*km*days)-((2*km*days)*0.1);
        number="DL 03 BF 2536";
    }
    else if(coupon=="flat20")
    {
        amt=(2*km*days)-((2*km*days)*0.2);
        number="DL 03 BF 2536";
    }
    else
    {
        amt=(2*km*days);
        number="DL 03 BF 2536";
    }
}
}
else if(city=="bangalore")
{
    if(coupon=="flat10")
    {
```

```

        amt=(3*km*days)-((3*km*days)*0.1);
        number="KA 01 LL 7781";
    }
    else if(coupon=="flat10")
    {
        amt=(3*km*days)-((3*km*days)*0.2);
        number="KA 01 LO 7781";
    }
    else
    {
        amt=(3*km*days);
        number="KA 01 LP 7781";
    }
}
else
{
    cout<<"Re-Enter your city: "<<endl;
    cin>>city;
}
cout<<"Amount is:"<<"₹"<<amt<<endl;
break;
}
case 2:
{
    brand="SKODA";
    type="SEDAN";
    color="BLUE";
    cout<<"SKODA"<<endl;
    cout<<"Enter number of kilometers travelled in a day:"<<endl;
    cin>>km;
    cout<<"Enter number of days"<<endl;
    cin>>days;
    int price_m=2;
    int price_d=2;
    int price_b=3;
    cout<<"Price in Mumbai is ₹2/km"<<endl;
    cout<<"Price in Delhi is ₹2/km"<<endl;
}

```

```

cout<<"Price in Bangalore is ₹3/km"<<endl;
cout<<"Enter your city: "<<endl;
cin>>city;
transform(city.begin(), city.end(), city.begin(), ::tolower);
cout<<"Enter Coupon Code if applicable:"<<endl;
cin>>coupon;
transform(coupon.begin(),coupon.end(),coupon.begin(),::tolower);
if(city=="mumbai")
{
    if(coupon=="flat10")
    {
        amt=(2*km*days)-((2*km*days)*0.1);
        number="MH 04 PP 6420";
    }
    else if(coupon=="flat20")
    {
        amt=(2*km*days)-((2*km*days)*0.2);
        number="MH 04 HG 6420";
    }
    else
    {
        amt=(2*km*days);
        number="MH 04 HG 6420";
    }
}
else if(city=="delhi")
{
    if(coupon=="flat10")
    {
        amt=(2*km*days)-((2*km*days)*0.1);
        number="DL 05 BF 2536";
    }
    else if(coupon=="flat20")
    {
        amt=(2*km*days)-((2*km*days)*0.2);
        number="DL 05 BF 2536";
    }
}

```

```

else
{
    amt=(2*km*days);
    number="DL 05 BF 2536";
}
}
else if(city=="bangalore")
{
    if(coupon=="flat10")
    {
        amt=(3*km*days)-((3*km*days)*0.1);
        number="KA 01 BF 7781";
    }
    else if(coupon=="flat10")
    {
        amt=(3*km*days)-((3*km*days)*0.2);
        number="KA 01 BF 7781";
    }
    else
    {
        amt=(3*km*days);
        number="KA 01 BF 7781";
    }
}
else
{
    cout<<"Re-Enter your city: "<<endl;
    cin>>city;
}
cout<<"Amount is:"<<"₹"<<amt<<endl;
break;
}
case 3:
{
    brand="RENAULT";
    type="SEDAN";
    color="BLUE";
}

```



```

cout<<"RENAULT"<<endl;
cout<<"Enter number of kilometers travelled in a day:"<<endl;
cin>>km;
cout<<"Enter number of days"<<endl;
cin>>days;
int price_m=3;
int price_d=3;
int price_b=3;
cout<<"Price in Mumbai is ₹3/km"<<endl;
cout<<"Price in Delhi is ₹3/km"<<endl;
cout<<"Price in Bangalore is ₹3/km"<<endl;
cout<<"Enter your city: "<<endl;
cin>>city;
transform(city.begin(), city.end(), city.begin(), ::tolower);
cout<<"Enter Coupon Code if applicable:"<<endl;
cin>>coupon;
transform(coupon.begin(),coupon.end(),coupon.begin(),::tolower);
if(city=="mumbai")
{
    if(coupon=="flat10")
    {
        amt=(3*km*days)-((3*km*days)*0.1);
        number="MH 04 LG 6420";
    }
    else if(coupon=="flat20")
    {
        amt=(3*km*days)-((3*km*days)*0.2);
        number="MH 04 GP 6420";
    }
    else
    {
        amt=(3*km*days);
        number="MH 04 KL 6420";
    }
}
else if(city=="delhi")
{

```

```

    if(coupon=="flat10")
    {
        amt=(3*km*days)-((3*km*days)*0.1);
        number="DL 01 BF 2536";
    }
    else if(coupon=="flat20")
    {
        amt=(3*km*days)-((3*km*days)*0.2);
        number="DL 01 BF 2536";
    }
    else
    {
        amt=(3*km*days);
        number="DL 01 BF 2536";
    }
}
else if(city=="bangalore")
{
    if(coupon=="flat10")
    {
        amt=(3*km*days)-((3*km*days)*0.1);
        number="KA 01 BF 7781";
    }
    else if(coupon=="flat10")
    {
        amt=(3*km*days)-((3*km*days)*0.2);
        number="KA 01 CF 7781";
    }
    else
    {
        amt=(3*km*days);
        number="KA 01 CF 7781";
    }
}
else
{
    cout<<"Re-Enter your city: "<<endl;

```

```

        cin>>city;
    }
    cout<<"Amount is:"<<"₹"<<amt<<endl;
    break;
}
case 4:
{
    brand="TOYOTA";
    type="SUV";
    color="WHITE";
    cout<<"TOYOTA"<<endl;
    cout<<"Enter number of kilometers travelled in a day:"<<endl;
    cin>>km;
    cout<<"Enter number of days"<<endl;
    cin>>days;
    int price_m=3;
    int price_d=4;
    int price_b=3;
    cout<<"Price in Mumbai is ₹3/km"<<endl;
    cout<<"Price in Delhi is ₹4/km"<<endl;
    cout<<"Price in Bangalore is ₹3/km"<<endl;
    cout<<"Enter your city: "<<endl;
    cin>>city;
    transform(city.begin(), city.end(), city.begin(), ::tolower);
    cout<<"Enter Coupon Code if applicable:"<<endl;
    cin>>coupon;
    transform(coupon.begin(),coupon.end(),coupon.begin(),::tolower);
    if(city=="mumbai")
    {
        if(coupon=="flat10")
        {
            amt=(3*km*days)-((3*km*days)*0.1);
            number="MH 04 OQ 6420";
        }
        else if(coupon=="flat20")
        {
            amt=(3*km*days)-((3*km*days)*0.2);

```

```
        number="MH 04 OQ 6420";
    }
    else
    {
        amt=(3*km*days);
        number="MH 04 OQ 6420";
    }
}
else if(city=="delhi")
{
    if(coupon=="flat10")
    {
        amt=(4*km*days)-((4*km*days)*0.1);
        number="DL 03 BF 2536";
    }
    else if(coupon=="flat20")
    {
        amt=(4*km*days)-((4*km*days)*0.2);
        number="DL 03 BF 2536";
    }
    else
    {
        amt=(4*km*days);
        number="DL 03 BF 2536";
    }
}
else if(city=="bangalore")
{
    if(coupon=="flat10")
    {
        amt=(3*km*days)-((3*km*days)*0.1);
        number="KA 01 FG 7781";
    }
    else if(coupon=="flat10")
    {
        amt=(3*km*days)-((3*km*days)*0.2);
        number="KA 01 FG 7781";
    }
}
```

```

    }
    else
    {
        amt=(3*km*days);
        number="KA 01 FG 7781";
    }
}
else
{
    cout<<"Re-Enter your city: "<<endl;
    cin>>city;
}
cout<<"Amount is:"<<"₹"<<amt<<endl;
break;
}
case 5:
{
    brand="KIA";
    type="SEDAN";
    color="BLACK";
    cout<<"KIA"<<endl;
    cout<<"Enter number of kilometers travelled in a day:"<<endl;
    cin>>km;
    cout<<"Enter number of days"<<endl;
    cin>>days;
    int price_m=3;
    int price_d=2;
    int price_b=3;
    cout<<"Price in Mumbai is ₹3/km"<<endl;
    cout<<"Price in Delhi is ₹2/km"<<endl;
    cout<<"Price in Bangalore is ₹3/km"<<endl;
    cout<<"Enter your city: "<<endl;
    cin>>city;
    transform(city.begin(), city.end(), city.begin(), ::tolower);
    cout<<"Enter Coupon Code if applicable:"<<endl;
    cin>>coupon;
    transform(coupon.begin(),coupon.end(),coupon.begin(),::tolower);

```

```
if(city=="mumbai")
{
    if(coupon=="flat10")
    {
        amt=(3*km*days)-((3*km*days)*0.1);
        number="MH 04 GG 6420";
    }
    else if(coupon=="flat20")
    {
        amt=(3*km*days)-((3*km*days)*0.2);
        number="MH 04 GG 6420";
    }
    else
    {
        amt=(3*km*days);
        number="MH 04 GG 6420";
    }
}
else if(city=="delhi")
{
    if(coupon=="flat10")
    {
        amt=(2*km*days)-((2*km*days)*0.1);
        number="DL 03 BF 2536";
    }
    else if(coupon=="flat20")
    {
        amt=(2*km*days)-((2*km*days)*0.2);
        number="DL 03 BF 2536";
    }
    else
    {
        amt=(2*km*days);
        number="DL 03 BF 2536";
    }
}
else if(city=="bangalore")
```

```

{
    if(coupon=="flat10")
    {
        amt=(3*km*days)-((3*km*days)*0.1);
        number="KA 01 LK 7781";
    }
    else if(coupon=="flat10")
    {
        amt=(3*km*days)-((3*km*days)*0.2);
        number="KA 01 BM 7781";
    }
    else
    {
        amt=(3*km*days);
        number="KA 01 LL 7781";
    }
}
else
{
    cout<<"Re-Enter your city: "<<endl;
    cin>>city;
}
cout<<"Amount is:"<<"₹"<<amt<<endl;
break;
}
case 6:
{
    brand="HYUNDAI";
    type="SEDAN";
    color="RED";
    cout<<"HYUNDAI"<<endl;
    cout<<"Enter number of kilometers travelled in a day:"<<endl;
    cin>>km;
    cout<<"Enter number of days"<<endl;
    cin>>days;
    int price_m=2;
    int price_d=2;

```

```

int price_b=2;
cout<<"Price in Mumbai is ₹2/km"<<endl;
cout<<"Price in Delhi is ₹2/km"<<endl;
cout<<"Price in Bangalore is ₹2/km"<<endl;
cout<<"Enter your city: "<<endl;
cin>>city;
transform(city.begin(), city.end(), city.begin(), ::tolower);
cout<<"Enter Coupon Code if applicable:"<<endl;
cin>>coupon;
transform(coupon.begin(),coupon.end(),coupon.begin(),::tolower);
if(city=="mumbai")
{
    if(coupon=="flat10")
    {
        amt=(2*km*days)-((2*km*days)*0.1);
        number="MH 04 PQ 6420";
    }
    else if(coupon=="flat20")
    {
        amt=(2*km*days)-((2*km*days)*0.2);
        number="MH 04 PQ 6420";
    }
    else
    {
        amt=(2*km*days);
        number="MH 04 PQ 6420";
    }
}
else if(city=="delhi")
{
    if(coupon=="flat10")
    {
        amt=(2*km*days)-((2*km*days)*0.1);
        number="DL 03 BF 2536";
    }
    else if(coupon=="flat20")
    {

```



```

        amt=(2*km*days)-((2*km*days)*0.2);
        number="DL 03 BF 2536";
    }
    else
    {
        amt=(2*km*days);
        number="DL 03 BF 2536";
    }
}
else if(city=="bangalore")
{
    if(coupon=="flat10")
    {
        amt=(2*km*days)-((2*km*days)*0.1);
        number="KA 01 LP 7781";
    }
    else if(coupon=="flat10")
    {
        amt=(2*km*days)-((2*km*days)*0.2);
        number="KA 01 LP 7781";
    }
    else
    {
        amt=(2*km*days);
        number="KA 01 LP 7781";
    }
}
else
{
    cout<<"Re-Enter your city: "<<endl;
    cin>>city;
}
cout<<"Amount is:"<<"₹"<<amt<<endl;
break;
}
case 7:
{

```

```

brand="HONDA";
type="SUV";
color="BLUE";
cout<<"HONDA"<<endl;
cout<<"Enter number of kilometers travelled in a day:"<<endl;
cin>>km;
cout<<"Enter number of days"<<endl;
cin>>days;
int price_m=3;
int price_d=4;
int price_b=3;
cout<<"Price in Mumbai is ₹3/km"<<endl;
cout<<"Price in Delhi is ₹4/km"<<endl;
cout<<"Price in Bangalore is ₹3/km"<<endl;
cout<<"Enter your city: "<<endl;
cin>>city;
transform(city.begin(), city.end(), city.begin(), ::tolower);
cout<<"Enter Coupon Code if applicable:"<<endl;
cin>>coupon;
transform(coupon.begin(),coupon.end(),coupon.begin(),::tolower);
if(city=="mumbai")
{
    if(coupon=="flat10")
    {
        amt=(3*km*days)-((3*km*days)*0.1);
        number="MH 04 GG 6420";
    }
    else if(coupon=="flat20")
    {
        amt=(3*km*days)-((3*km*days)*0.2);
        number="MH 04 FR 6420";
    }
    else
    {
        amt=(3*km*days);
        number="MH 04 FP 6420";
    }
}

```

```
}
else if(city=="delhi")
{
    if(coupon=="flat10")
    {
        amt=(4*km*days)-((4*km*days)*0.1);
        number="DL 03 BF 2536";
    }
    else if(coupon=="flat20")
    {
        amt=(4*km*days)-((4*km*days)*0.2);
        number="DL 03 BF 2536";
    }
    else
    {
        amt=(4*km*days);
        number="DL 03 BF 2536";
    }
}
else if(city=="bangalore")
{
    if(coupon=="flat10")
    {
        amt=(3*km*days)-((3*km*days)*0.1);
        number="KA 01 BL 7781";
    }
    else if(coupon=="flat10")
    {
        amt=(3*km*days)-((3*km*days)*0.2);
        number="KA 01 BL 7781";
    }
    else
    {
        amt=(3*km*days);
        number="KA 01 BL 7781";
    }
}
```

```

else
{
    cout<<"Re-Enter your city: "<<endl;
    cin>>city;
}
cout<<"Amount is:"<<"₹"<<amt<<endl;
break;
}
case 8:
{
    brand="MAHINDRA";
    type="SUV";
    color="WHITE";
    cout<<"MAHINDRA"<<endl;
    cout<<"Enter number of kilometers travelled in a day:"<<endl;
    cin>>km;
    cout<<"Enter number of days"<<endl;
    cin>>days;
    int price_m=3;
    int price_d=3;
    int price_b=3;
    cout<<"Price in Mumbai is ₹3/km"<<endl;
    cout<<"Price in Delhi is ₹3/km"<<endl;
    cout<<"Price in Bangalore is ₹3/km"<<endl;
    cout<<"Enter your city: "<<endl;
    cin>>city;
    transform(city.begin(), city.end(), city.begin(), ::tolower);
    cout<<"Enter Coupon Code if applicable:"<<endl;
    cin>>coupon;
    transform(coupon.begin(),coupon.end(),coupon.begin(),::tolower);
    if(city=="mumbai")
    {
        if(coupon=="flat10")
        {
            amt=(3*km*days)-((3*km*days)*0.1);
            number="MH 04 FF 6420";
        }
    }
}

```

```
else if(coupon=="flat20")
{
    amt=(3*km*days)-((3*km*days)*0.2);
    number="MH 04 FF 6420";
}
else
{
    amt=(3*km*days);
    number="MH 04 FF 6420";
}
}
else if(city=="delhi")
{
    if(coupon=="flat10")
    {
        amt=(3*km*days)-((3*km*days)*0.1);
        number="DL 03 BF 2536";
    }
    else if(coupon=="flat20")
    {
        amt=(3*km*days)-((3*km*days)*0.2);
        number="DL 03 BF 2536";
    }
    else
    {
        amt=(3*km*days);
        number="DL 03 BF 2536";
    }
}
else if(city=="bangalore")
{
    if(coupon=="flat10")
    {
        amt=(3*km*days)-((3*km*days)*0.1);
        number="KA 01 LL 7781";
    }
    else if(coupon=="flat10")
```

```

    {
        amt=(3*km*days)-((3*km*days)*0.2);
        number="KA 01 LP 7781";
    }
    else
    {
        amt=(3*km*days);
        number="KA 01 WK7781";
    }
}
else
{
    cout<<"Re-Enter your city: "<<endl;
    cin>>city;
}
cout<<"Amount is:"<<"₹"<<amt<<endl;
break;
}
case 9:
{
    brand="TATA";
    type="SEDAN";
    color="BLUE";
    cout<<"TATA"<<endl;
    cout<<"Enter number of kilometers travelled in a day:"<<endl;
    cin>>km;
    cout<<"Enter number of days"<<endl;
    cin>>days;
    int price_m=2;
    int price_d=2;
    int price_b=2;
    cout<<"Price in Mumbai is ₹2/km"<<endl;
    cout<<"Price in Delhi is ₹2/km"<<endl;
    cout<<"Price in Bangalore is ₹2/km"<<endl;
    cout<<"Enter your city: "<<endl;
    cin>>city;
    transform(city.begin(), city.end(), city.begin(), ::tolower);
}

```

```
cout<<"Enter Coupon Code if applicable:"<<endl;
cin>>coupon;
transform(coupon.begin(),coupon.end(),coupon.begin(),::tolower);
if(city=="mumbai")
{
    if(coupon=="flat10")
    {
        amt=(2*km*days)-((2*km*days)*0.1);
        number="MH 04 PL 6420";
    }
    else if(coupon=="flat20")
    {
        amt=(2*km*days)-((2*km*days)*0.2);
        number="MH 04 PL 6420";
    }
    else
    {
        amt=(2*km*days);
        number="MH 04 PL 6420";
    }
}
else if(city=="delhi")
{
    if(coupon=="flat10")
    {
        amt=(2*km*days)-((2*km*days)*0.1);
        number="DL 07 BF 2536";
    }
    else if(coupon=="flat20")
    {
        amt=(2*km*days)-((2*km*days)*0.2);
        number="DL 07 BF 2536";
    }
}
else if(city=="bangalore")
{
    if(coupon=="flat10")
```

```

    {
        amt=(3*km*days)-((3*km*days)*0.1);
        number="KA 01 LL 7781";
    }
    else if(coupon=="flat10")
    {
        amt=(3*km*days)-((3*km*days)*0.2);
        number="KA 01 LP 7781";
    }
    else
    {
        amt=(3*km*days);
        number="KA 01 WK7781";
    }
}
else
{
    cout<<"Re-Enter your city: "<<endl;
    cin>>city;
}
cout<<"Amount is:"<<"₹"<<amt<<endl;
break;
}
case 10:
{
    brand="INDICA";
    type="SEDAN";
    color="BLACK";
    cout<<"INDICA"<<endl;
    cout<<"Enter number of kilometers travelled in a day:"<<endl;
    cin>>km;
    cout<<"Enter number of days"<<endl;
    cin>>days;
    int price_m=2;
    int price_d=3;
    int price_b=3;
    cout<<"Price in Mumbai is ₹2/km"<<endl;

```



```

cout<<"Price in Delhi is ₹3/km"<<endl;
cout<<"Price in Bangalore is ₹3/km"<<endl;
cout<<"Enter your city: "<<endl;
cin>>city;
transform(city.begin(), city.end(), city.begin(), ::tolower);
cout<<"Enter Coupon Code if applicable:"<<endl;
cin>>coupon;
transform(coupon.begin(),coupon.end(),coupon.begin(),::tolower);

if(city=="mumbai")
{
    if(coupon=="flat10")
    {
        amt=(2*km*days)-((2*km*days)*0.1);
        number="MH 04 HK 6420";
    }
    else if(coupon=="flat20")
    {
        amt=(2*km*days)-((2*km*days)*0.2);
        number="MH 04 BF 6420";
    }
    else
    {
        amt=(2*km*days);
        number="MH 04 LK 6420";
    }
}
else if(city=="delhi")
{
    if(coupon=="flat10")
    {
        amt=(3*km*days)-((3*km*days)*0.1);
        number="DL 03 BF 2536";
    }
    else if(coupon=="flat20")
    {
        amt=(3*km*days)-((3*km*days)*0.2);
    }
}

```

```

        number="DL 03 BF 2536";
    }
}
else if(city=="bangalore")
{
    if(coupon=="flat10")
    {
        amt=(3*km*days)-((3*km*days)*0.1);
        number="KA 01 LL 7781";
    }
    else if(coupon=="flat10")
    {
        amt=(3*km*days)-((3*km*days)*0.2);
        number="KA 01 LP 7781";
    }
    else
    {
        amt=(3*km*days);
        number="KA 01 WK7781";
    }
}
else
{
    cout<<"Re-Enter your city: "<<endl;
    cin>>city;
}
cout<<"Amount is:"<<"₹"<<amt<<endl;
break;
}
default:
{
    cout<<"Enter valid input";
    cin>>ch;
}
}
cout<<"Do you want to re-book? yes or no"<<endl;
cin>>decide;

```

```

if(decide=="no")
{
    {
        cout<<"***** E-Invoice *****"<<endl;
        cout<<endl;
        cout<<endl;
        cout<<"Name: "<<name<<endl;
        cout<<"Billing Amount: "<<"₹"<<amt<<endl;
        cout<<"Phone number: "<<num<<endl;
        cout<<"City: "<<loc<<endl;
        cout<<"Booking Dates: "<<start_date<<"--"<<end_date<<endl;
        cout<<endl;
        cout<<endl;
        cout<<endl;
        cout<<"***** Car Details *****";
        cout<<endl;
        cout<<endl;
        cout<<endl;
        cout<<"The Car Brand is: "<<brand<<endl;
        cout<<"The Car Model is: "<<type<<endl;
        cout<<"The Car Colour is: "<<color<<endl;
        cout<<"The Car Number is: "<<number<<endl;
        cout<<endl;
        cout<<endl;
        cout<<endl;
        cout<<"Helpline Number: 1408-400438"<<endl;
        cout<<endl;
    }    cout<<"*** THANK YOU *****"<<endl;
}
else
{
    options();
}
}
};

int main()

```

```
{  
    Cars obj;  
    obj.display();  
    obj.user_input();  
    obj.options();  
    return 0;  
}
```

## OUTPUT:

```
input
***** RENT YOUR CAR !! *****
***** Car Brands Available *****
1.      Maruti Suzuki   SUV
2.      Skoda           Sedan
3.      Renault         Sedan
4.      Toyota          SUV
5.      KIA             SUV
6.      Hyundai         Sedan
7.      Honda           SUV
8.      Mahindra        SUV
9.      TATA            Sedan
10.     INDICA          Sedan
Customer Name:
Isha Pillai
Customer Contact Number:
988767878
Re-enter 10-Digit Number:
988767878
Location Required
Mumbai
Enter Start Date (dd/mm/yyyy):
07/11/2022
Enter End Date (dd/mm/yyyy):
10/11/2022
Choose the Car(Sr.No): 5
KIA
Enter number of kilometers travelled in a day:
50
Enter number of days
5
Price in Mumbai is ₹3/km
Price in Delhi is ₹2/km
Price in Bangalore is ₹3/km
Enter your city:
mumbai
Enter Coupon Code if applicable:
flat20
```

```
Price in Delhi is ₹2/km
Price in Bangalore is ₹3/km
Enter your city:
mumbai
Enter Coupon Code if applicable:
flat20
Amount is: ₹600
Do you want to re-book? yes or no
no
**** E-Invoice ****

Name: Isha Pillai
Billing Amount: ₹600
Phone number: 9887678787
City: Mumbai
Booking Dates: 07/11/2022--10/11/2022
```

```
**** Car Details ****
```

```
The Car Brand is: KIA
The Car Model is: SEDAN
The Car Colour is: BLACK
The Car Number is: MH 04 GG 6420
```

```
Helpline Number: 1408-400438
```

```
*** THANK YOU ****
```

```
...Program finished with exit code 0
Press ENTER to exit console.
```

## **Functionalities:**

**void display():** This function displays car details like card brand and its model.

**void user input():** This function takes input of the user details such as their name, contact number, location and booking dates.

**void options():** This function allows the user to book a car of their choice from the available options. It also includes pricing of the car based on the travel distance, duration of renting and the location at which the car is rented. It also calculates discounts if any valid coupon codes are available.

**Invoice:** This displays the user details and the selected car details.

## **Member's Contribution:**

**Kashmaya: Switch Case**

**Vedanti: Switch Case**

**Samiksha: User Detail Input and Displaying Invoice**

