```java

//Base class Vehicle
class Vehicle{

    //defining class attributes
    private String VehicleName;
    private int modelNo;

    //defining Parameterized constructor
    public Vehicle( String vname,int mno)
    {
        this.VehicleName=vname;
        this.modelNo=mno;
    }

    //defining class Methods
    public void VehicleColor()
    {
        System.out.println("Color of the Vehicle is Red");
    }

    public void Own()
    {
        System.out.println("I own " + VehicleName);
    }

    public void display()
    {
        System.out.println("Name of Vehicle is: " + VehicleName);
        System.out.println("Model Number of " + VehicleName + " is " + modelNo);
    }

}

//Inheriting classes
class Car extends Vehicle{

    private int year;
```

```
39
40      //Car class constructor
41      public Car( String carName,int modelNo,int
    carYear)
42      {
43          super(carName,modelNo);
44          this.year=carYear;
45      }
46
47      //Overriding display method
48      @Override
49      public void Own()
50      {
51          System.out.println("I own car produced in
    year " + year);
52      }
53  }
54   public class Assignment1{
55
56      public static void main(String[] args)
57       {
58           //creating an instance of class Vehicle
59           Vehicle vehicle = new Vehicle("Toyota",
    97145);
60
61           // calling methods of class Vehicle
62           vehicle.VehicleColor();
63           vehicle.Own();
64           vehicle.display();
65
66           //creating local instance of class Car
67           Car car =new Car("Honda",78142,2024);
68           car.display();
69           car.Own();
70       }
71  }
72
73
74
```