public class Vehicle {

private String regNo;

private String make;

private int yearOfManufacture;

private double value;

public Vehicle(String regNo, String make, int yearOfManufacture, double value) {

this.regNo = regNo;

this.make = make;

this.yearOfManufacture = yearOfManufacture;

this.value = value;

}

public String getRegNumber() {

return regNo;

}

public String getMake() {

return make;

}

public int getYear() {

return yearOfManufacture;

}

public double getValue() {

return value;

}

public void setValue(double value) {

this.value = value;

}

public int calculateAge(int currentYear) {

return currentYear - yearOfManufacture;

}

}

public class SecondHandVehicle extends Vehicle {

private int numberOfOwners;

public SecondHandVehicle(String regNo, String make, int yearOfManufacture, double value, int numberOfOwners) {

super(regNo, make, yearOfManufacture, value);

this.numberOfOwners = numberOfOwners;

}

public int getNumberOfOwners() {

return numberOfOwners;

}

public void sellVehicle(double newValue) {

setValue(newValue);

numberOfOwners++;

}

}

public class TestClass {

public static void main(String[] args) {

// Creating a new vehicle

Vehicle vehicle = new Vehicle("ABC123", "Toyota", 2018, 20000.0);

// Accessing vehicle information

System.out.println("Registration Number: " + vehicle.getRegNumber());

System.out.println("Make: " + vehicle.getMake());

System.out.println("Year of Manufacture: " + vehicle.getYear());

System.out.println("Value: " + vehicle.getValue());

// Setting a new value for the vehicle

vehicle.setValue(25000.0);

System.out.println("Updated Value: " + vehicle.getValue());

// Calculating the age of the vehicle

int currentYear = 2023;

int age = vehicle.calculateAge(currentYear);

System.out.println("Vehicle Age: " + age);

// Creating a second-hand vehicle

SecondHandVehicle secondHandVehicle = new SecondHandVehicle("XYZ456", "Honda", 2015, 15000.0, 2);

// Accessing second-hand vehicle information

System.out.println("\nSecond Hand Vehicle Information:");

System.out.println("Registration Number: " + secondHandVehicle.getRegNumber());

System.out.println("Make: " + secondHandVehicle.getMake());

System.out.println("Year of Manufacture: " + secondHandVehicle.getYear());

System.out.println("Value: " + secondHandVehicle.getValue());

System.out.println("Number of Owners: " + secondHandVehicle.getNumberOfOwners());

// Selling the second-hand vehicle

secondHandVehicle.sellVehicle(12000.0);

System.out.println("Updated Value: " + secondHandVehicle.getValue());

System.out.println("Number of Owners: " + secondHandVehicle.getNumberOfOwners());

    }

}