ASSIGNMENT :- 1

Car.java

```java
package Naveen;

import java.util.Scanner;

public class Car {
    // Attributes
    private String make;
    private String model;
    private short year;
    private int price;

    // Constructor
    public Car(String make, String model, short year, int price) {
        this.make = make;
        this.model = model;
        this.year = year;
        this.price = price;
    }

    // Method to display car details
    public void displayInfo() {
        System.out.println("Car Details:");
        System.out.println("Make  : " + make);
        System.out.println("Model : " + model);
        System.out.println("Year  : " + year);
        System.out.println("Price : ₹" + price);
        System.out.println("------------------------");
    }

    // Main method
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);

        System.out.print("How many cars do you want to enter? ");
        int count = scanner.nextInt();
        scanner.nextLine(); // Consume newline

        Car[] cars = new Car[count];

        for (int i = 0; i < count; i++) {
            System.out.println("\nEnter details for Car #" + (i + 1));

            System.out.print("Make: ");
            String make = scanner.nextLine();

            System.out.print("Model: ");
            String model = scanner.nextLine();

            System.out.print("Year: ");
            short year = scanner.nextShort();

            System.out.print("Price: ");
            int price = scanner.nextInt();
            scanner.nextLine(); // Consume newline

            cars[i] = new Car(make, model, year, price);
        }

        System.out.println("\n--- Displaying All Car Details ---");
        for (Car car : cars) {
            car.displayInfo();
        }

        scanner.close();
    }
}

```

OUTPUT :-

Problems | Javadoc | Declaration | Console

<terminated> Car [Java Application] C:\Users\Naveen\.p2\pool\plugins\org.eclipse.justj.open

```
How many cars do you want to enter? 1

Enter details for Car #1
Make: 1
Model: honda
Year: 2021
Price: 50000000

--- Displaying All Car Details ---
Car Details:
Make  : 1
Model : honda
Year  : 2021
Price : ₹50000000
------------------------
```

ASSIGNMENT :- 1

Input :-

```
import java.util.Scanner;


public class Car {
    // Attributes
    private String make;
    private String model;
    private short year;
    private int price;
    // Constructor
    public Car(String make, String model, short year, int price) {
        this.make = make;
        this.model = model;
        this.year = year;
        this.price = price;
    }
    // Method to display car details
    public void displayInfo() {
        System.out.println("Car Details:");
        System.out.println("Make  : " + make);
        System.out.println("Model : " + model);
        System.out.println("Year  : " + year);
        System.out.println("Price : ₹" + price);
        System.out.println("-----------------------");
    }
    // Main method
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.print("How many cars do you want to enter? ");
        int count = scanner.nextInt();
        scanner.nextLine(); // Consume newline
      Car[] cars = new Car[count];
```

```
for (int i = 0; i < count; i++) {
    System.out.println("\nEnter details for Car #" + (i + 1));

    System.out.print("Make: ");
    String make = scanner.nextLine();

    System.out.print("Model: ");
    String model = scanner.nextLine();

    System.out.print("Year: ");
    short year = scanner.nextShort();

    System.out.print("Price: ");
    int price = scanner.nextInt();
    scanner.nextLine(); // Consume newline

    cars[i] = new Car(make, model, year, price);
}
System.out.println("\n--- Displaying All Car Details ---");
for (Car car : cars) {
    car.displayInfo();
}
scanner.close();
    }
}
```

ASSIGNMENT :- 2

Student.java

```java
package Naveen;

public class Student {
    // Attributes
    private String name;
    private int age;
    private String department;

    // Constructor
    public Student(String name, int age, String department) {
        this.name = name;
        this.age = age;
        this.department = department;
    }

    // Getter and Setter for name
    public String getName() {
        return name;
    }
    public void setName(String name) {
        this.name = name;
    }

    // Getter and Setter for age
    public int getAge() {
        return age;
    }
    public void setAge(int age) {
        this.age = age;
    }

    // Getter and Setter for department
    public String getDepartment() {
        return department;
    }
    public void setDepartment(String department) {
        this.department = department;
    }

    // Optional: Display method for convenience
    public void displayInfo() {
        System.out.println("Student Info:");
        System.out.println("Name       : " + name);
        System.out.println("Age        : " + age);
        System.out.println("Department: " + department);
    }

    // Main method to test the class
    public static void main(String[] args) {
        Student s1 = new Student("Naveen", 20, "Computer Science");
        s1.displayInfo();

        // Example of using setters
        s1.setAge(22);
        System.out.println("\nUpdated Age: " + s1.getAge());
    }
}

```

OUTPUT :-

Problems | Javadoc | Declaration | Console

```
<terminated> Student (2) [Java Application] C:\Users\Naveen\.p2\pool\plugins\org.eclipse.justj.openjdk
Student Info:
Name       : Naveen
Age        : 20
Department: Computer Science

Updated Age: 22
```

ASSIGNMENT :- 2

Input :-

```
public class Student {
    // Attributes
    private String name;
    private int age;
    private String department;
    // Constructor
    public Student(String name, int age, String department) {
        this.name = name;
        this.age = age;
        this.department = department;
    }
    // Getter and Setter for name
    public String getName() {
        return name;
    }
    public void setName(String name) {
        this.name = name;
    }
    // Getter and Setter for age
    public int getAge() {
        return age;
    }
    public void setAge(int age) {
        this.age = age;
    }
    // Getter and Setter for department
    public String getDepartment() {
        return department;
    }
    public void setDepartment(String department) {
        this.department = department;
```

```
}
// Optional: Display method for convenience
public void displayInfo() {
    System.out.println("Student Info:");
    System.out.println("Name     : " + name);
    System.out.println("Age      : " + age);
    System.out.println("Department: " + department);
}
// Main method to test the class
public static void main(String[] args) {
    Student s1 = new Student("Naveen", 20, "Computer Science");
        s1.displayInfo();
    // Example of using setters
        s1.setAge(22);
        System.out.println("\nUpdated Age: " + s1.getAge());
    }
}
```