

# ASSIGNMENT :- 1

```
Car.java X
1 package Naveen;
2
3 import java.util.Scanner;
4
5 public class Car {
6     // Attributes
7     private String make;
8     private String model;
9     private short year;
10    private int price;
11
12    // Constructor
13    public Car(String make, String model, short year, int price) {
14        this.make = make;
15        this.model = model;
16        this.year = year;
17        this.price = price;
18    }
19
20    // Method to display car details
21    public void displayInfo() {
22        System.out.println("Car Details:");
23        System.out.println("Make : " + make);
24        System.out.println("Model : " + model);
25        System.out.println("Year : " + year);
26        System.out.println("Price : ₹" + price);
27        System.out.println("-----");
28    }
29
30    // Main method
31    public static void main(String[] args) {
32        Scanner scanner = new Scanner(System.in);
33
34        System.out.print("How many cars do you want to enter? ");
35        int count = scanner.nextInt();
36        scanner.nextLine(); // Consume newline
37
38        Car[] cars = new Car[count];
39
40        for (int i = 0; i < count; i++) {
41            System.out.println("\nEnter details for Car #" + (i + 1));
42
43            System.out.print("Make: ");
44            String make = scanner.nextLine();
45
46            System.out.print("Model: ");
47            String model = scanner.nextLine();
48
49            System.out.print("Year: ");
50            short year = scanner.nextShort();
51
52            System.out.print("Price: ");
53            int price = scanner.nextInt();
54            scanner.nextLine(); // Consume newline
55
56            cars[i] = new Car(make, model, year, price);
57        }
58
59        System.out.println("\n--- Displaying All Car Details ---");
60        for (Car car : cars) {
61            car.displayInfo();
62        }
63
64        scanner.close();
65    }
66 }
67
```

OUTPUT :-

```
Problems Javadoc Declaration Console X
<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 ×
1 package Naveen;
2
3 public class Student {
4     // Attributes
5     private String name;
6     private int age;
7     private String department;
8
9     // Constructor
10    public Student(String name, int age, String department) {
11        this.name = name;
12        this.age = age;
13        this.department = department;
14    }
15
16    // Getter and Setter for name
17    public String getName() {
18        return name;
19    }
20    public void setName(String name) {
21        this.name = name;
22    }
23
24    // Getter and Setter for age
25    public int getAge() {
26        return age;
27    }
28    public void setAge(int age) {
29        this.age = age;
30    }
31
32    // Getter and Setter for department
33    public String getDepartment() {
34        return department;
35    }
36    public void setDepartment(String department) {
37        this.department = department;
38    }
39
40    // Optional: Display method for convenience
41    public void displayInfo() {
42        System.out.println("Student Info:");
43        System.out.println("Name      : " + name);
44        System.out.println("Age       : " + age);
45        System.out.println("Department: " + department);
46    }
47
48    // Main method to test the class
49    public static void main(String[] args) {
50        Student s1 = new Student("Naveen", 20, "Computer Science");
51        s1.displayInfo();
52
53        // Example of using setters
54        s1.setAge(22);
55        System.out.println("\nUpdated Age: " + s1.getAge());
56    }
57 }
58
```

## 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());  
}  
}
```