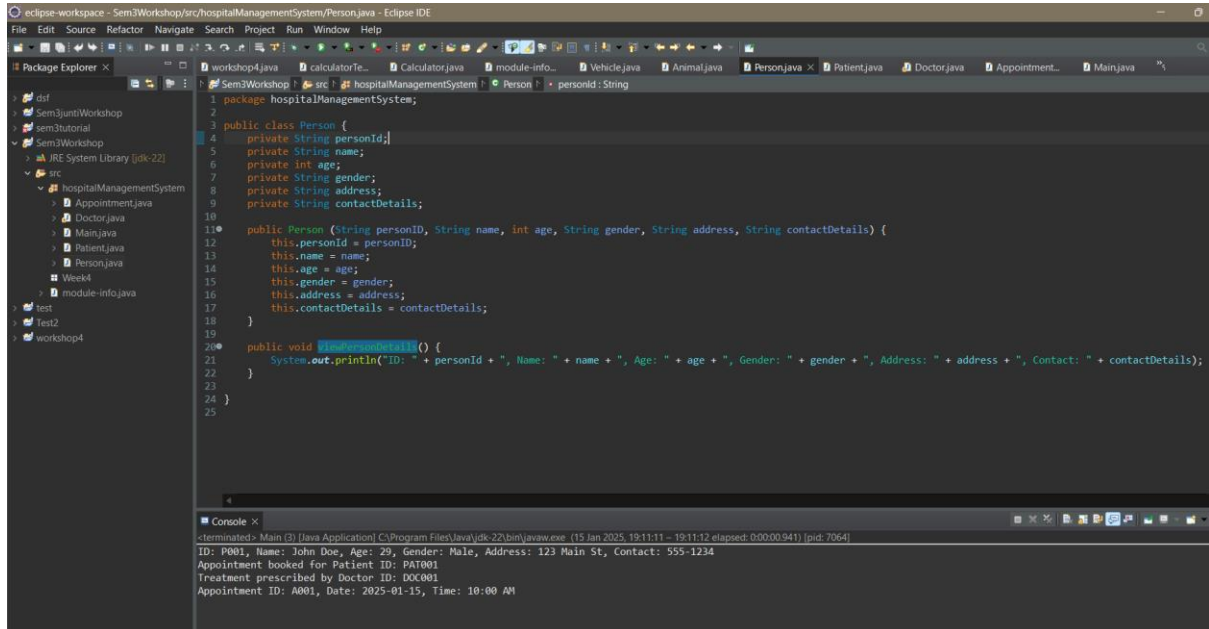


Week-7

Submitted by Supreme Maharjan

Person.java



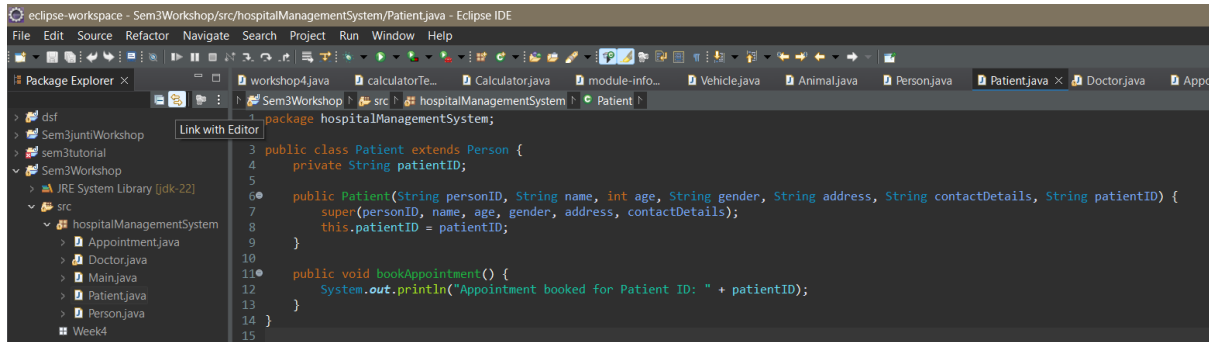
The screenshot shows the Eclipse IDE with the `Person.java` file open. The package is `hospitalManagementSystem`. The class `Person` has private attributes `personID`, `name`, `age`, `gender`, `address`, and `contactDetails`. It includes a constructor and a `displayPersonDetails()` method. The console output shows the execution of the `Main` class, displaying patient information and appointment details.

```
1 package hospitalManagementSystem;
2
3 public class Person {
4     private String personID;
5     private String name;
6     private int age;
7     private String gender;
8     private String address;
9     private String contactDetails;
10
11     public Person (String personID, String name, int age, String gender, String address, String contactDetails) {
12         this.personID = personID;
13         this.name = name;
14         this.age = age;
15         this.gender = gender;
16         this.address = address;
17         this.contactDetails = contactDetails;
18     }
19
20     public void displayPersonDetails() {
21         System.out.println("ID: " + personID + ", Name: " + name + ", Age: " + age + ", Gender: " + gender + ", Address: " + address + ", Contact: " + contactDetails);
22     }
23 }
24
25
```

Console Output:

```
<terminated> Main [Java Application] C:\Program Files\Java\jdk-22\bin\javaw.exe (15 Jan 2025, 19:11:11 - 19:11:12 elapsed: 0:00:00.941) [pid: 7064]
ID: P001, Name: John Doe, Age: 29, Gender: Male, Address: 123 Main St, Contact: 555-1234
Appointment booked for Patient ID: PAT001
Treatment prescribed by Doctor ID: DOC001
Appointment ID: A001, Date: 2025-01-15, Time: 10:00 AM
```

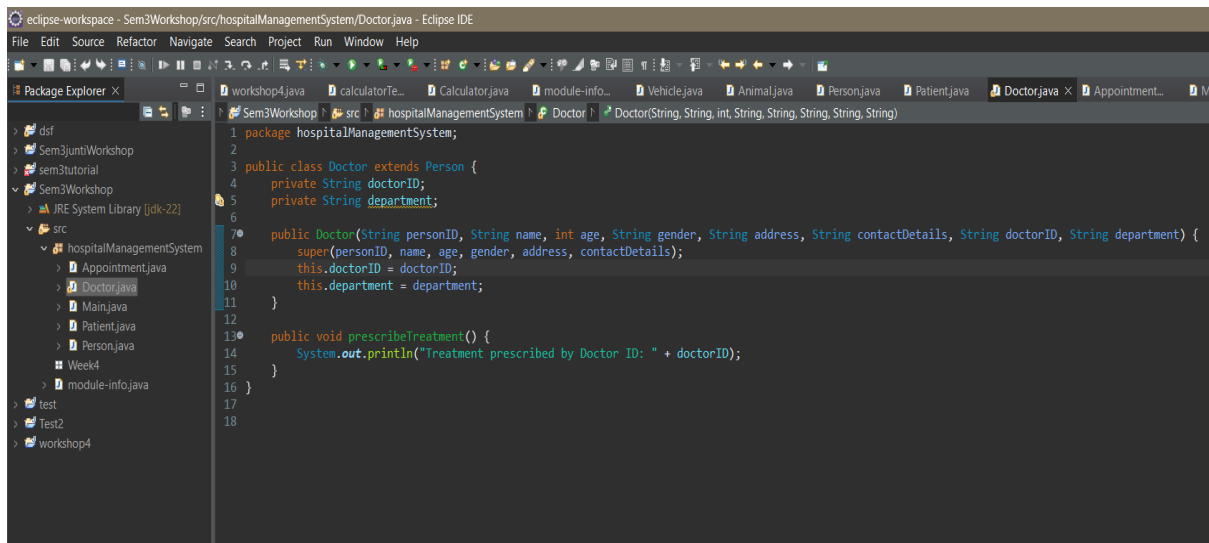
Patient.java



The screenshot shows the Eclipse IDE with the `Patient.java` file open. The package is `hospitalManagementSystem`. The class `Patient` extends `Person` and has a private attribute `patientID`. It includes a constructor that calls `super()` and a `bookAppointment()` method.

```
1 package hospitalManagementSystem;
2
3 public class Patient extends Person {
4     private String patientID;
5
6     public Patient(String personID, String name, int age, String gender, String address, String contactDetails, String patientID) {
7         super(personID, name, age, gender, address, contactDetails);
8         this.patientID = patientID;
9     }
10
11     public void bookAppointment() {
12         System.out.println("Appointment booked for Patient ID: " + patientID);
13     }
14 }
15
```

Doctor.java

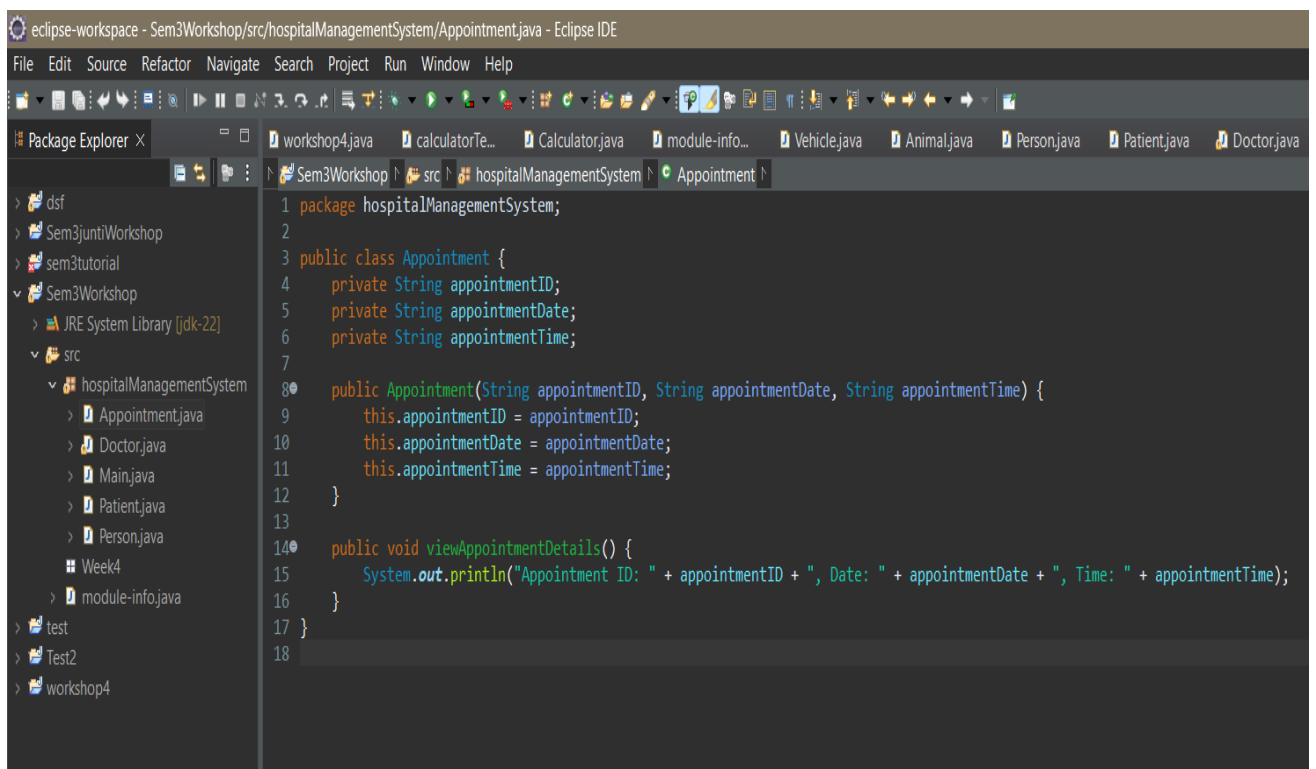


The screenshot shows the Eclipse IDE with the following details:

- Package Explorer:** Shows the project structure with 'Sem3Workshop' expanded, containing 'src' and 'test' folders. Under 'src', 'hospitalManagementSystem' is expanded, showing 'Appointment.java', 'Doctor.java' (selected), 'Main.java', 'Patient.java', 'Person.java', and 'Week4'.
- Editor:** Displays the code for 'Doctor.java' in the 'hospitalManagementSystem' package. The code is as follows:

```
1 package hospitalManagementSystem;
2
3 public class Doctor extends Person {
4     private String doctorID;
5     private String department;
6
7     public Doctor(String personID, String name, int age, String gender, String address, String contactDetails, String doctorID, String department) {
8         super(personID, name, age, gender, address, contactDetails);
9         this.doctorID = doctorID;
10        this.department = department;
11    }
12
13    public void prescribeTreatment() {
14        System.out.println("Treatment prescribed by Doctor ID: " + doctorID);
15    }
16 }
17
18
```

Appointment.java

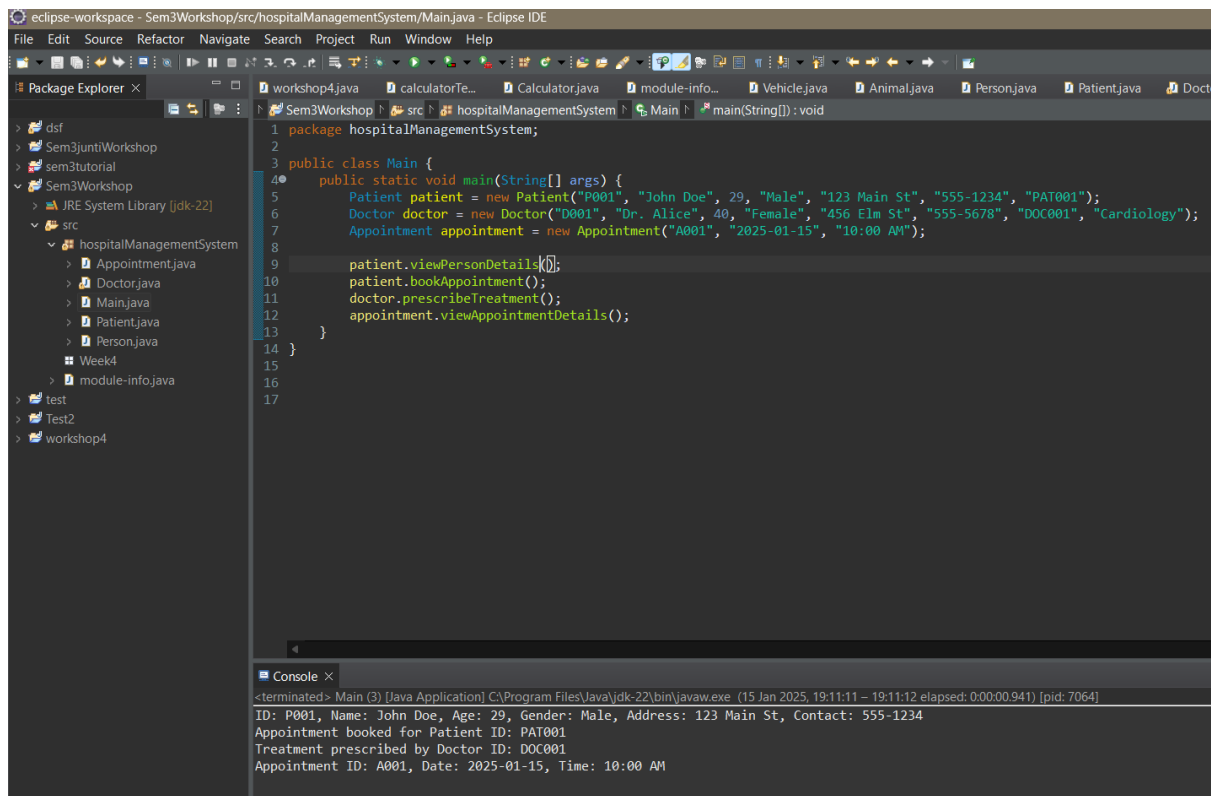


The screenshot shows the Eclipse IDE with the following details:

- Package Explorer:** Similar to the previous screenshot, but 'Appointment.java' is selected in the 'hospitalManagementSystem' package.
- Editor:** Displays the code for 'Appointment.java' in the 'hospitalManagementSystem' package. The code is as follows:

```
1 package hospitalManagementSystem;
2
3 public class Appointment {
4     private String appointmentID;
5     private String appointmentDate;
6     private String appointmentTime;
7
8     public Appointment(String appointmentID, String appointmentDate, String appointmentTime) {
9         this.appointmentID = appointmentID;
10        this.appointmentDate = appointmentDate;
11        this.appointmentTime = appointmentTime;
12    }
13
14    public void viewAppointmentDetails() {
15        System.out.println("Appointment ID: " + appointmentID + ", Date: " + appointmentDate + ", Time: " + appointmentTime);
16    }
17 }
18
```

Main.java And Output s



The screenshot displays the Eclipse IDE interface. The Package Explorer on the left shows the project structure, including the 'src' folder and the 'hospitalManagementSystem' package. The main editor window shows the 'Main.java' file with the following code:

```
1 package hospitalManagementSystem;
2
3 public class Main {
4     public static void main(String[] args) {
5         Patient patient = new Patient("P001", "John Doe", 29, "Male", "123 Main St", "555-1234", "PAT001");
6         Doctor doctor = new Doctor("D001", "Dr. Alice", 40, "Female", "456 Elm St", "555-5678", "DOC001", "Cardiology");
7         Appointment appointment = new Appointment("A001", "2025-01-15", "10:00 AM");
8
9         patient.viewPersonDetails();
10        patient.bookAppointment();
11        doctor.prescribeTreatment();
12        appointment.viewAppointmentDetails();
13    }
14 }
15
16
17
```

The Console window at the bottom shows the output of the program:

```
<terminated> Main (3) [Java Application] C:\Program Files\Java\jdk-22\bin\javaw.exe (15 Jan 2025, 19:11:11 - 19:11:12 elapsed: 0:00:00.941) [pid: 7064]
ID: P001, Name: John Doe, Age: 29, Gender: Male, Address: 123 Main St, Contact: 555-1234
Appointment booked for Patient ID: PAT001
Treatment prescribed by Doctor ID: DOC001
Appointment ID: A001, Date: 2025-01-15, Time: 10:00 AM
```