

LAB # 1

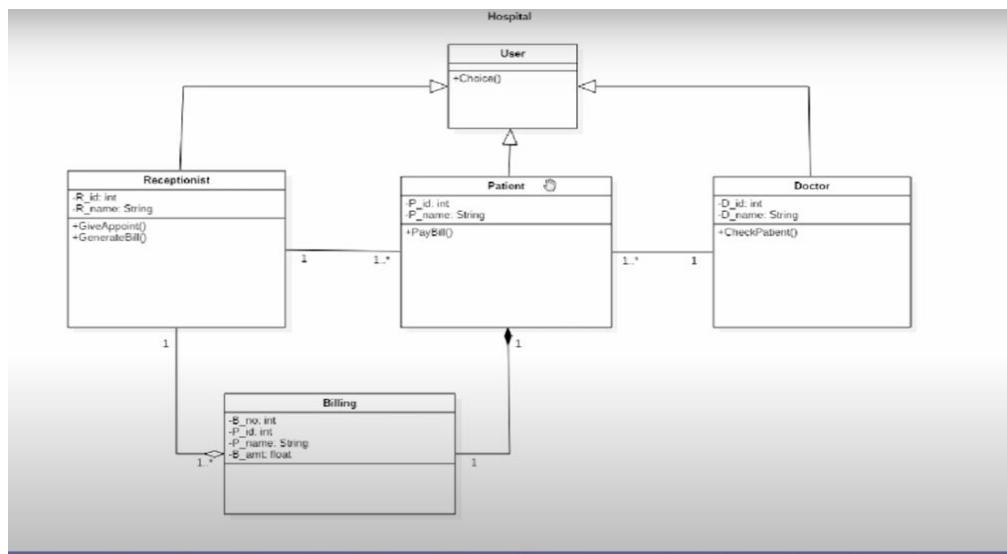
Introduction to Eclipse IDE

OBJECTIVE

Introduction to Eclipse IDE, creating projects, its classes and mapping UML class diagram in to java code.

Lab Task:

Write the java code with the help of the given class diagram of Hospital Management System.



CODE:

```

public class User {
    public void Choice() {
    }
}

public class Receptionist extends User {
    int R_id;
    String R_name;

    public Receptionist(int R_id, String R_name) {
        this.R_id = R_id;
        this.R_name = R_name;
    }

    public void GiveAppoint() {

    }

    public void GenerateBill() {
    }
}
  
```

```
public class Patient extends User {
    int P_id;
    String P_name;

    public Patient(int P_id, String P_name) {
        this.P_id = P_id;
        this.P_name = P_name;
    }

    public void PayBill() {
    }
}

public class Doctor extends User {
    int D_id;
    String D_name;

    public Doctor(int D_id, String D_name) {
        this.D_id = D_id;
        this.D_name = D_name;
    }

    public void CheckPatient() {
    }
}

public class Billing {
    int B_no;
    int P_id;
    String P_name;
    float B_amt;

    public Billing(int B_no, int P_id, String P_name, float B_amt) {
        this.B_no = B_no;
        this.P_id = P_id;
        this.P_name = P_name;
        this.B_amt = B_amt;
    }
}
```

```
public class Main {
    public static void main(String[] args) {

        Receptionist receptionist = new Receptionist(101, "emaan");
        receptionist.Choice();
        receptionist.GiveAppoint();
        receptionist.GenerateBill();

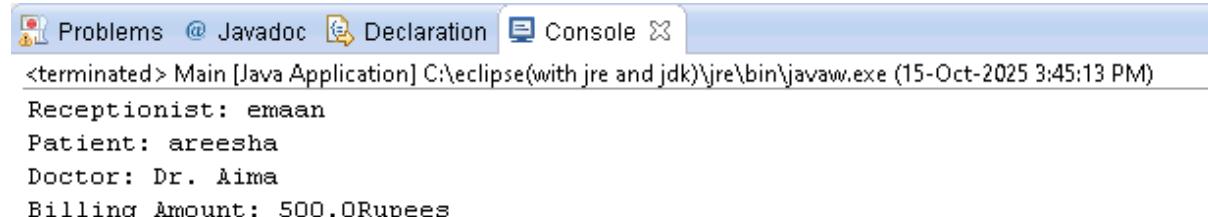
        // Create Patient
        Patient patient = new Patient(201, "areesha");
        patient.Choice();
        patient.PayBill();

        // Create Doctor
        Doctor doctor = new Doctor(301, "Dr. Aima");
        doctor.Choice();
        doctor.CheckPatient();

        // Create Billing
        Billing bill = new Billing(1, patient.P_id, patient.P_name, 500.0f);

        System.out.println("Receptionist: " + receptionist.R_name);
        System.out.println("Patient: " + patient.P_name);
        System.out.println("Doctor: " + doctor.D_name);
        System.out.println("Billing Amount: " + bill.B_amt + "Rupees");
    }
}
```

OUTPUT:



```
Problems @ Javadoc Declaration Console
<terminated> Main [Java Application] C:\eclipse(with jre and jdk)\jre\bin\javaw.exe (15-Oct-2025 3:45:13 PM)
Receptionist: emaan
Patient: areesha
Doctor: Dr. Aima
Billing Amount: 500.0Rupees
```