

LAB # 1

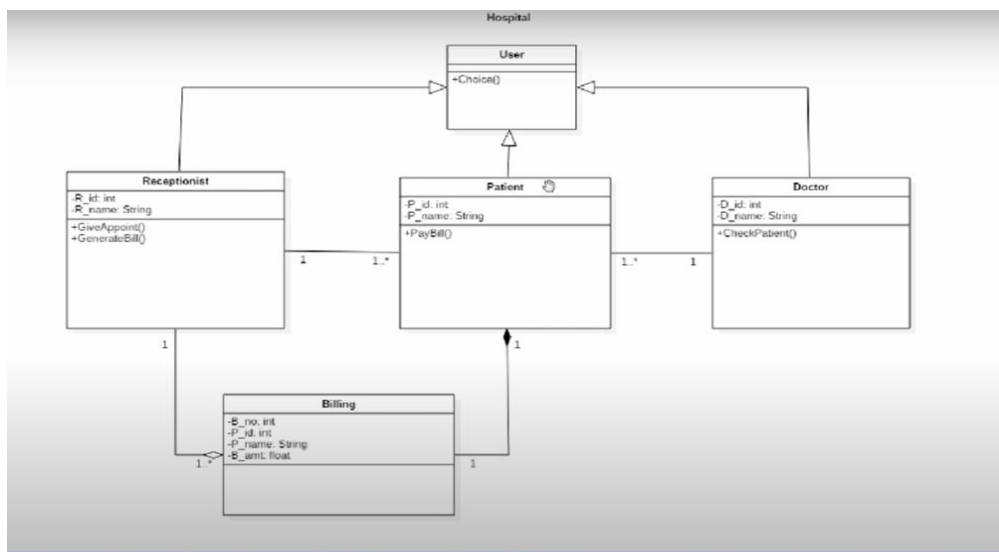
Introduction to Eclipse IDE

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() {
    }

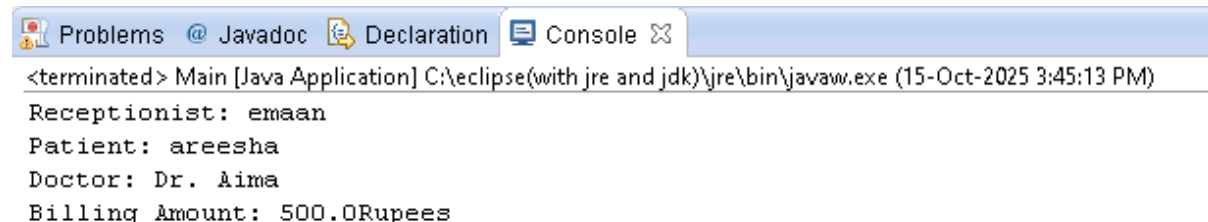
    public void GenerateBill() {
    }
}
```

```
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:

The screenshot shows the Eclipse IDE interface with the 'Console' tab selected. The console output displays the results of the Java application execution, including the names of the receptionist, patient, and doctor, and the total billing amount.

```
<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
```