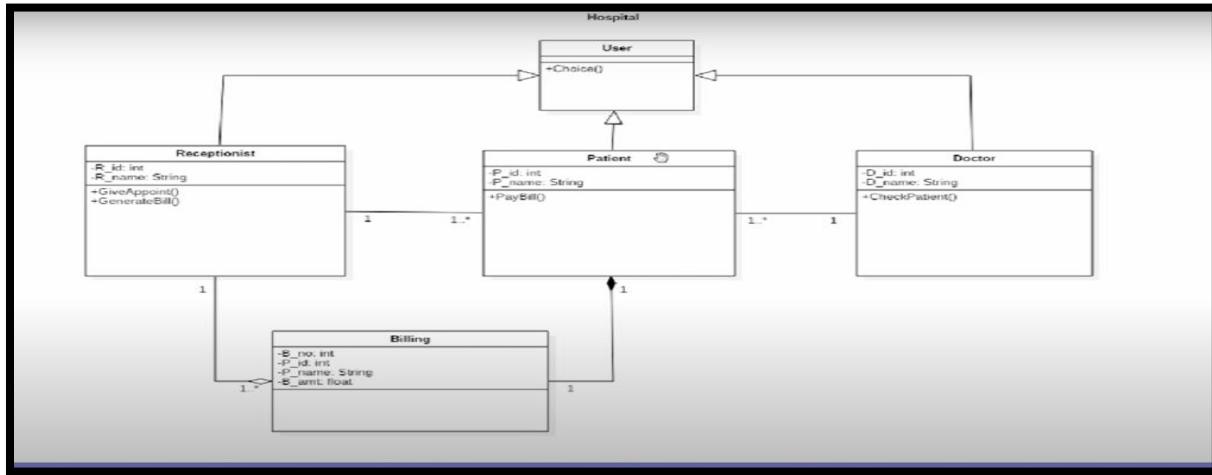


LAB # 1

Introduction to Eclipse IDE

Lab Task:-

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



Code:-

```

User.java
1  class User {
2      void choice() {
3          System.out.println("User can choose operations.");
4      }
5  }

Receptionist.java
1  class Receptionist extends User {
2      int R_id;
3      String R_name;
4
5      void giveAppointment() {
6          System.out.println("Receptionist gives appointment to patient.");
7      }
8
9      void generateBill() {
10         System.out.println("Receptionist generates bill for patient.");
11     }
12 }

Doctor.java
1  class Doctor extends User {
2      int D_id;
3      String D_name;
4
5      void checkPatient() {
6          System.out.println("Doctor checks the patient.");
7      }
8  }

```

```

User.java          Receptionist.java        Doctor.java      Patient.java
1  class Patient extends User { no usages
2    int P_id; no usages
3    String P_name; no usages
4
5    void payBill() { no usages
6      System.out.println("Patient pays the bill.");
7    }
8 }

User.java          Receptionist.java        Doctor.java      Patient.java
1  class Billing { no usages
2    int B_no; 1 usage
3    int P_id; 1 usage
4    String P_name; 1 usage
5    float B_amt; 1 usage
6
7    void showBill() { no usages
8      System.out.println("Bill No: " + B_no);
9      System.out.println("Patient ID: " + P_id);
10     System.out.println("Patient Name: " + P_name);
11     System.out.println("Amount: $" + B_amt);
12   }
13 }

User.java          Receptionist.java        Doctor.java      Patient.java
1  public class Hospital {
2    public static void main(String[] args) {
3      Receptionist r = new Receptionist();
4      r.R_id = 1;
5      r.R_name = "Anna";
6
7      Doctor d = new Doctor();
8      d.D_id = 101;
9      d.D_name = "Dr. Smith";
10
11      Patient p = new Patient();
12      p.P_id = 5001;
13      p.P_name = "John Doe";
14
15      Billing b = new Billing();
16      b.B_no = 9001;
17      b.P_id = p.P_id;
18      b.P_name = p.P_name;
19      b.B_amt = 250.75f;
20
21      System.out.println("== Hospital System ==");
22      r.giveAppointment();
23      d.checkPatient();
24      r.generateBill();
25      b.showBill();
26      p.payBill();
27    }
28  }

```

Output:-

```

C:\Users\ LAPCOM\.jdks\openjdk-25\bin\java.
== Hospital System ==
Receptionist gives appointment to patient.
Doctor checks the patient.
Receptionist generates bill for patient.
Bill No: 9001
Patient ID: 5001
Patient Name: John Doe
Amount: $250.75
Patient pays the bill.

Process finished with exit code 0

```