

LAB # 01

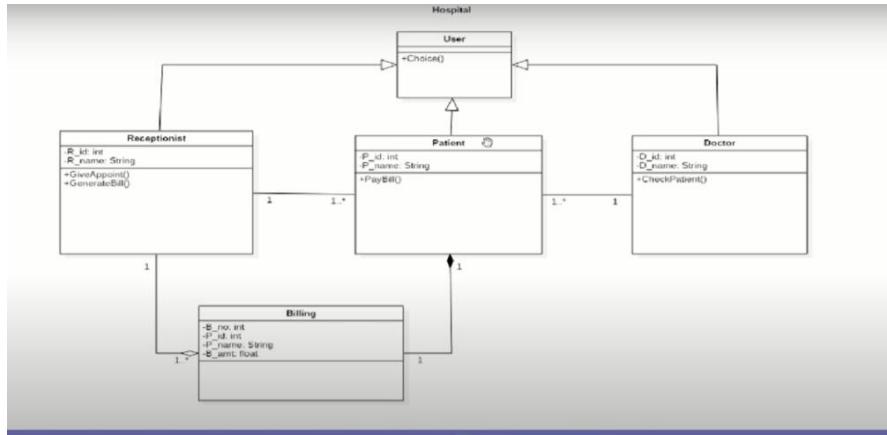
INTRODUCTION TO ECLIPSE IDE

OBJECT:

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:

```

Users.java × Receptionist.java Patient.java Doctor.java Billing.java Hospital.java
1 package hospital.management;
2
3 public class Users {
4     String choice;
5     void choice(String choice) {
6         System.out.println("Choose category:" + choice);
7     }
8 }

Users.java × Receptionist.java × Patient.java Doctor.java Billing.java Hospital.java
1 package hospital.management;
2 public class Receptionist extends Users{
3     int R_id;
4     String R_name;
5     public Receptionist(int R_id, String R_name) {
6         this.R_id = R_id;
7         this.R_name = R_name;
8     }
9     void giveAppointment(int P_id, String P_name, int D_id, String D_name) {
10        System.out.println("Patient:" + P_id + " : " + P_name +
11                            " take appointment of Doctor " + D_id + " : " + D_name);
12    }
13    void generateBill( int P_id, float amount) {
14        System.out.println("Bill paid by patient:" + P_id + " amounting Rs. " + amount);
15    }
16 }
  
```

```

1 package hospital.management;
2 public class Patient extends Users{
3     int P_id;
4     String P_name;
5     public Patient(int P_id , String P_name) {
6         this.P_id = P_id;
7         this.P_name = P_name;
8     }
9     void payBill(int P_id , String P_name) {
10        System.out.println(P_id + ":" + P_name + "Pay bill.");
11    }
12 }
13 
```



```

1 package hospital.management;
2 public class Doctor extends Users{
3     int D_id;
4     String D_name;
5     public Doctor(int D_id, String D_name) {
6         this.D_id = D_id;
7         this.D_name = D_name;
8     }
9     void checkPatient(int P_id, int D_id , String D_name) {
10        System.out.println( D_id + ":" + D_name + " Check Patient " + P_id + " and prescribed medicines.");
11    }
12 }
13 
```



```

1 package hospital.management;
2 public class Billing {
3     int B_id;
4     int P_id;
5     String P_name;
6     float amount;
7     public Billing (int B_id, int P_id, String P_name, float amount) {
8         this.B_id = B_id;
9         this.P_id = P_id;
10        this.P_name = P_name;
11        this.amount = amount;
12    }
13    void details() {
14        System.out.println("Bill No: " + B_id);
15        System.out.println("Patient Name: " + P_name);
16        System.out.println("Patient ID: " +P_id);
17    }
18 }
19 
```



```

1 package hospital.management;
2 public class Hospital {
3     public static void main(String[] args) {
4         Receptionist R1 = new Receptionist(1,"Aruba1");
5         Doctor D1 = new Doctor(11,"Aruba2");
6         Patient P1 = new Patient(111,"Aruba3");
7         Billing B1 = new Billing(122,111,"Aruba3",5000);
8         R1.choice("Receptionist");
9         D1.choice("Doctor");
10        P1.choice("Patient");
11        R1.generateBill(111, 500);
12        R1.giveAppointment(111, "Aruba3", 11, "Aruba2");
13        P1.payBill(111, "Aruba3");
14        D1.checkPatient(111, 11, "Aruba2");
15        B1.details();
16    }
17 }
18 
```

OUTPUT:

```

Problems @ Javadoc Declaration Console X Install Java 25 Support
<terminated> Hospital [Java Application] C:\Users\DELL\p2\pool\plugins\org.eclipse.justj.openjd
Choose category:Receptionist
Choose category:Doctor
Choose category:Patient
Bill paid by patient:111 amounting Rs. 500.0
Patient:111 : Aruba3 take appointment of Doctor 11 : Aruba2
111:Aruba3Pay bill.
11 : Aruba2 Check Patient 111 and prescribed medicines.
Bill No: 122
Patient Name: Aruba3
Patient ID: 111

```