

## LAB # 1

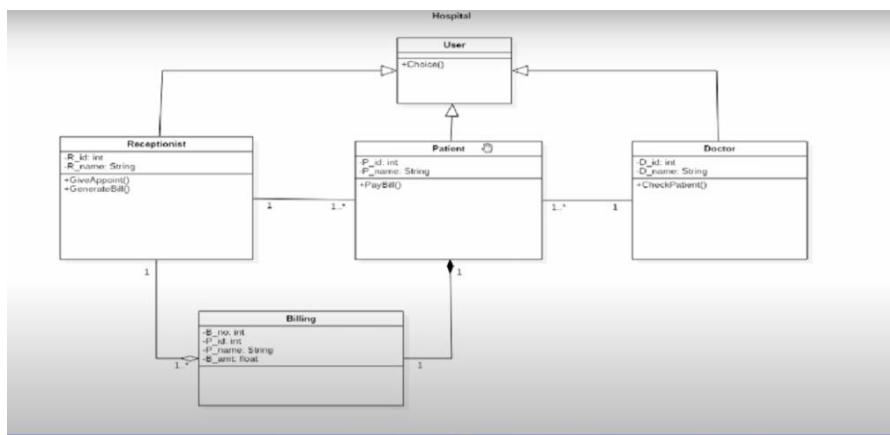
### Introduction to Eclipse IDE

#### 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.



#### User.java

```
1 public class User {  
2     public void Choice() {  
3     }  
4 }  
5  
6
```

#### Receptionist.java

```
1 public class Receptionist extends User {  
2     int R_id;  
3     String R_name;  
4  
5     public Receptionist(int R_id, String R_name) {  
6         this.R_id = R_id;  
7         this.R_name = R_name;  
8     }  
9  
10    public void GiveAppoint() {  
11    }  
12  
13    public void GenerateBill() {  
14    }  
15 }  
16
```

**Doctor.java**

```
1 public class Doctor extends User {  
2     int D_id;  
3     String D_name;  
4  
5     public Doctor(int D_id, String D_name) {  
6         this.D_id = D_id;  
7         this.D_name = D_name;  
8     }  
9  
10    public void CheckPatient() {  
11    }  
12 }  
13
```

**Patient.java**

```
1 public class Patient extends User {  
2     int P_id;  
3     String P_name;  
4  
5     public Patient(int P_id, String P_name) {  
6         this.P_id = P_id;  
7         this.P_name = P_name;  
8     }  
9  
10    public void PayBill() {  
11        }  
12 }  
13
```

**Billing.java**

```
1 public class Billing {  
2     int B_no;  
3     int P_id;  
4     String P_name;  
5     float B_amt;  
6  
7     public Billing(int B_no, int P_id, String P_name, float B_amt) {  
8         this.B_no = B_no;  
9         this.P_id = P_id;  
10        this.P_name = P_name;  
11        this.B_amt = B_amt;  
12    }  
13 }  
14
```

HospitalManagementSystem.java

```
1 public class HospitalManagementSystem {  
2     public static void main(String[] args) {  
3         Receptionist r = new Receptionist(1, "Rohit");  
4         r.Choice();  
5         r.GiveAppoint();  
6         r.GenerateBill();  
7           
8         Patient p = new Patient(10, "Aman Mathur");  
9         p.Choice();  
10        p.PayBill();  
11          
12          
13        Doctor d = new Doctor(100, "Dr. Naina");  
14        d.Choice();  
15        d.CheckPatient();  
16          
17        Billing b = new Billing(1000, 201, "Ali", 10000.0f);  
18          
19        System.out.println("Receptionist ID: " + r.R_id);  
20        System.out.println("Receptionist Name: " + r.R_name);  
21        System.out.println();  
22          
23        System.out.println("Patient ID: " + p.P_id);  
24        System.out.println("Patient Name: " + p.P_name);  
25        System.out.println();  
26          
27        System.out.println("Doctor ID: " + d.D_id);  
28        System.out.println("Doctor Name: " + d.D_name);  
29        System.out.println();  
30          
31        System.out.println("Billing Number: " + b.B_no);  
32        System.out.println("Patient ID: " + b.P_id);  
33        System.out.println("Patient Name: " + b.P_name);  
34        System.out.println("Billing Amount: " + b.B_amt);  
35          
36    }
```

**Output:**

```
Receptionist ID: 1  
Receptionist Name: Rohit  
  
Patient ID: 10  
Patient Name: Aman Mathur  
  
Doctor ID: 100  
Doctor Name: Dr. Naina  
  
Billing Number: 1000  
Patient ID: 201  
Patient Name: Ali  
Billing Amount: 10000.0
```