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**Assignment-8 (Facade Pattern)**

**Aim:**

To implement Façade Design Pattern using Accommodation management system.

**Code:**

**Room.java**

public interface Room{

    void allot();

}

**GeneralRoom.java**

public class GeneralRoom implements Room{

    @Override

    public void allot() {

        System.out.println("General Room alloted.");

    }

}

**LuxuryRoom.java**

public class LuxuryRoom implements Room{

    @Override

    public void allot() {

        System.out.println("Luxury Room alloted.");

    }

}

**DeluxRoom.java**

public class DeluxRoom implements Room{

    @Override

    public void allot() {

        System.out.println("Delux Room alloted.");

    }

}

**RoomMaker.java**

public class RoomMaker {

    private Room generalRoom;

    private Room luxuryRoom;

    private Room deluxRoom;

    //constructor

    public RoomMaker(){

        generalRoom = new GeneralRoom();

        luxuryRoom = new LuxuryRoom();

        deluxRoom = new DeluxRoom();

    }

    public void allotGeneralRoom(){

        generalRoom.allot();

    }

    public void allotLuxuryRoom(){

        luxuryRoom.allot();

    }

    public void allotDeluxRoom(){

        deluxRoom.allot();

    }

}

**Test.java**

public class Test {

    public static void main(String args[]){

        //one RoomMaker object is enough to call all methods(provide services)

        RoomMaker rm = new RoomMaker();

        rm.allotGeneralRoom();

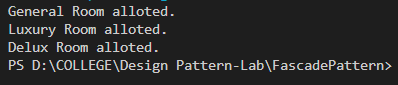
        rm.allotLuxuryRoom();

        rm.allotDeluxRoom();

    }

}

**Output:**



**Class Diagram:**

