

```

package classes;
//class of moduls
public class BookableRoom {
    //all the attributes for the class
    private String status;

    private int occupancy;

    private String time;

    private String date;

    private Room room;

    /**
     * @return Status
     */
    //method to find the status of the bookable room
    public String findOutStatusRoom(){
        int roomCampacity = room.getRoomCampacity();

        if (occupancy == 0) {
            status = "EMPTY";
        } else if( occupancy < roomCampacity){
            status = "AVAILABLE";
        } else if (occupancy == roomCampacity) {
            status = "FULL";
        } else if (occupancy > roomCampacity) {
            status = null;
            System.out.println("The occupancy can never be bigger than the room capacity");
        }

        return status;
    }

    //class constructor
    public BookableRoom(int Occupancy, String Time, String Date, Room Room){
        this.occupancy = Occupancy;
        this.time = Time;
        this.room = Room;
        this.date = Date;
        this.status = findOutStatusRoom();
    }

    /**
     * @return Printout of Bookable Room
     */
    //method for printing out Room info
    public String printThe(){
        System.out.println("| " + date + " | " + time + " | " + status + " | " + room.getRoomCode() + " | occupancy: " + occupancy);

        return "";
    }

    /**
     * @return Room Code
     */

```

```
66 //method for getting the bookable room code via room class
67 public String carryRoomCode(){
68     return room.getRoomCode();
69 }
70
71
72 /**
73  * @return Room Capacity
74  */
75 //method for getting the bookable room capacity via room class
76 public int carryCapacity(){
77     return room.getRoomCapacity();
78 }
79
80
81 /**
82  * @return Time
83  */
84 //method for getting the bookable rooms time (HH:MM)
85 public String getTime(){
86     return time;
87 }
88
89
90 /**
91  * @return String
92  */
93 //method for getting the bookable rooms date (dd/mm/yyyy)
94 public String getDate(){
95     return date;
96 }
97
98
99 }
```