

```

1 import java.io.*;
2
3 public class question50
4 {
5     public static void main(String args[])throws IOException
6     {
7         InputStreamReader read=new InputStreamReader(System.in);
8         BufferedReader in=new BufferedReader(read);
9
10        int rooms[][]=new int[5][3];
11
12        //initializing all array elements with -1 to signify that the room is available
13        for(int i=0;i<rooms.length;i++)
14        {
15            for(int j=0;j<rooms[0].length;j++)
16            {
17                rooms[i][j]=-1;
18            }
19        }
20
21        int n=2;
22
23        do{
24            System.out.println("Enter: 1. For booking a room; 2. for exit");
25            n=Integer.parseInt(in.readLine());
26
27            if(n==1)
28            {
29                boolean flag=false;
30                for(int i=0;i<rooms.length;i++)
31                {
32                    for(int j=0;j<rooms[0].length;j++)
33                    {
34                        if(rooms[i][j]==-1)
35                        {
36                            rooms[i][j]=1;
37                            System.out.println("Your room no. is "+(i+1)+"0"+(j+1));
38                            flag=true;
39                            break;
40                        }
41                    }
42                    if(flag==true) // break will only break out of one for loop so we do
43                        this to break out of the second one as well
44                    {
45                        break;
46                    }
47                }
48                if(flag==false)
49                {
50                    System.out.println("All rooms are full");
51                    break;
52                }
53            }
54            }while(n!=2);
55
56        }
57 }

```