

```
1 package book;
2
3 import java.util.Scanner;
4 public class Booking{
5
6     static int floor = 4;
7     static int rooms = 5;
8     static char[][] hotel = new char[floor][rooms];
9
10    static void initialize() {
11        for (int i = 0; i < floor; i++) {
12            for (int j = 0; j < rooms; j++) {
13                hotel[i][j] = 'a';
14            }
15        }
16    }
17
18    public static void main(String[] args) {
19        Scanner sc = new Scanner(System.in);
20
21        initialize();
22        while (true) {
23            System.out.println("1. View Rooms");
24            System.out.println("2. Book Rooms");
25            System.out.println("3. Exit");
26            System.out.print("Enter Your Choice: ");
27
28            int choice = sc.nextInt();
29
30            switch (choice) {
31                case 1:
32                    viewrooms();
33                    break;
34                case 2:
35                    bookrooms(sc);
36                    break;
37                case 3:
38                    System.out.println("THANK YOU");
39                    return;
40                default:
41                    System.out.println("Invalid Choice");
42                    break;
43            }
44        }
45    }
46
47    public static void viewrooms() {
48        for (int i = 0; i < floor; i++) {
49            System.out.print("Floor " + (i + 1) + ": ");
50            for (int j = 0; j < rooms; j++) {
51                System.out.print((j + 1) + ":" + hotel[i][j] + " ");
52            }
53            System.out.println();
54        }
55    }
56
57    static void bookrooms(Scanner sc) {
58        System.out.print("Enter Floor (1-4): ");
```

```
59     int Floor = sc.nextInt();
60     if (Floor < 1 || Floor > 4) {
61         System.out.println("Invalid Floor");
62         return;
63     }
64
65     System.out.print("Enter Room (1-5): ");
66     int Room = sc.nextInt();
67     if (Room < 1 || Room > 5) {
68         System.out.println("Invalid Room");
69         return;
70     }
71
72     if (hotel[Floor - 1][Room - 1] == 'b') {
73         System.out.println("Room is Already Booked");
74     } else {
75         hotel[Floor - 1][Room - 1] = 'b';
76         System.out.println("Room booked successfully");
77     }
78 }
79 }
80
81
```