

Java Program - Hotel Booking System

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Program Code:

```
import java.util.Scanner;

public class Hotel {

    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int[][] arr = new int[5][4];
        int choice;

        do {
            System.out.println("Hotel Booking System....");
            System.out.println("\n 1 View rooms");
            System.out.println(" 2 Book a room");
            System.out.println(" 3 Exit");
            System.out.println("Enter your choice");
            choice = sc.nextInt();

            if (choice == 1) {
                System.out.println("Here's the room status");
                for (int i = 0; i < 5; i++) {
                    for (int j = 0; j < 4; j++) {
                        System.out.print("F" + (i + 1) + "R" + (j + 1) + ":");
                        System.out.print((arr[i][j] == 0 ? "Available" : "Booked") + "\t");
                    }
                    System.out.println();
                }
            } else if (choice == 2) {
                System.out.print("Enter floor (1-5): ");
                int floor = sc.nextInt();

                System.out.print("Enter room (1-4): ");
            }
        }
    }
}
```

```

int room = sc.nextInt();

if (floor >= 1 && floor <= 5 && room >= 1 && room <= 4) {
    if (arr[floor - 1][room - 1] == 0) {
        arr[floor - 1][room - 1] = 1;
        System.out.println("Room Booked!!");
    } else {
        System.out.println("Room already booked, sorry for the inconvenience");
    }
} else {
    System.out.println("Invalid room number");
}
} else if (choice == 3) {
    System.out.println("No problem");
}

} while (choice != 3);

System.out.println("Thank you!!!");
sc.close();
}
}

```

OUTPUT:

Hotel Booking System....

1 View rooms

2 Book a room

3 Exit

Enter your choice

1

Here's the room status

F1R1:Available F1R2:Available F1R3:Available F1R4:Available

F2R1:Available F2R2:Available F2R3:Available F2R4:Available

F3R1:Available F3R2:Available F3R3:Available F3R4:Available

F4R1:Available F4R2:Available F4R3:Available F4R4:Available

F5R1:Available F5R2:Available F5R3:Available F5R4:Available

Hotel Booking System....

1 View rooms

2 Book a room

3 Exit

Enter your choice

2

Enter floor (1-5): 2

Enter room (1-4): 3

Room Booked!!

Hotel Booking System....

1 View rooms

2 Book a room

3 Exit

Enter your choice

1

Here's the room status

F1R1:Available F1R2:Available F1R3:Available F1R4:Available

F2R1:Available F2R2:Available F2R3:Booked F2R4:Available

F3R1:Available F3R2:Available F3R3:Available F3R4:Available

F4R1:Available F4R2:Available F4R3:Available F4R4:Available

F5R1:Available F5R2:Available F5R3:Available F5R4:Available

Hotel Booking System....

1 View rooms

2 Book a room

3 Exit

Enter your choice

3

No problem

Thank you!!