

```
1 package Work;
2
3 import java.util.HashMap;
4 import java.util.InputMismatchException;
5 import java.util.Iterator;
6 import java.util.Map;
7 import java.util.Scanner;
8 import java.util.Set;
9
10 public class Hotel1 {
11     public static void main(String[] args) {
12         new Hotel1().HotelStart();
13     }
14
15     private Scanner scan;
16     private Map<String, Hotel> hotelInfo;
17
18     public Hotel1() {
19         scan = new Scanner(System.in);
20         hotelInfo = new HashMap<>();
21     }
22
23     public void displayMenu() {
24
25         System.out.println();
26         System.out.println("*****");
27         System.out.println("어떤 업무를 하시겠습니까?");
28         System.out.println("1. 체크인 2. 체크아웃 3. 객실상태 4. 업무종료");
29         System.out.println("*****");
30         System.out.print("메뉴선택 => ");
31
32     }
33
34     public void HotelStart() {
35         System.out.println("*****");
36         System.out.println("호텔 문을 열었습니다.");
37         System.out.println("*****");
38         System.out.println();
39
40         while (true) {
41             displayMenu(); // 메뉴 출력
42
43             int menuNum = scan.nextInt();
44
45             switch (menuNum) {
46
47                 case 1:
48                     checkin();
49                     break;
50                 case 2:
```

```
51         checkout();
52         break;
53     case 3:
54         roominfo();
55         break;
56     case 4:
57         end();
58         return; // 메서드 종료
59     default:
60         System.out.println("잘못 입력하셨습니다. 다시 입력하세요.");
61     }
62 }
63
64 }
65 }
66
67 private void checkin() {
68     System.out.println();
69     System.out.println("어느 방에 체크인 하시겠습니까?");
70     System.out.print("방 번호 입력: ");
71     String roomNum = scan.next();
72     System.out.println();
73
74     if (hotelInfo.get(roomNum) != null) {
75         System.out.println(roomNum + "방은 이미 사람이 있습니다.");
76         System.out.println("다시 입력해주세요");
77         return;
78     }
79     System.out.println("누구를 체크인 하시겠습니까?");
80     System.out.print("이름 입력: ");
81     String name = scan.next();
82
83     Hotel h = new Hotel(name, roomNum);
84     hotelInfo.put(roomNum, h);
85     System.out.println();
86     System.out.println("체크인 되었습니다.");
87
88 }
89
90 private void checkout() {
91     System.out.println();
92     System.out.println("어느 방을 체크아웃 하시겠습니까?");
93     System.out.print("방 번호 입력 => ");
94     System.out.println();
95     String roomNum = scan.next();
96
97     // remove(key) 성공하면 value 값이 반환 b, 실패하면 null 이 반환
98     if (hotelInfo.remove(roomNum) == null) {
99         System.out.println(roomNum + " 방에는 체크인한 사람이 없습니다.");
100         System.out.println();
```

```
101         System.out.println("다시 입력해주세요.");
102         return;
103
104     }
105     hotelInfo.remove(roomNum);
106     System.out.println("체크아웃 되었습니다.");
107
108 }
109
110 private void roominfo() {
111
112     Set<String> keySet = hotelInfo.keySet();
113
114     if (keySet.size() == 0) {
115         System.out.println("정보가 없습니다.");
116
117     } else {
118         Iterator<String> it = keySet.iterator();
119         while (it.hasNext()) {
120             String roomNum = it.next();
121             Hotel h = hotelInfo.get(roomNum);
122             System.out.println();
123             System.out.println("방번호 : " + h.getRoomNum() + ", 투숙객 :
124 " + h.getName());
125         }
126     }
127
128 }
129
130 private void end() {
131
132     System.out.println("*****");
133     System.out.println("호텔 문을 닫았습니다.");
134     System.out.println("*****");
135
136 }
137
138 }
139
140 class Hotel {
141     private String name;
142     private String roomNum;
143
144     public Hotel(String name, String roomNum) {
145         super();
146         this.name = name;
147         this.roomNum = roomNum;
148     }
149 }
```

```
150     public String getName() {
151         return name;
152     }
153
154     public void setName(String name) {
155         this.name = name;
156     }
157
158     public String getRoomNum() {
159         return roomNum;
160     }
161
162     public void setRoomNum(String roomNum) {
163         this.roomNum = roomNum;
164     }
165
166     @Override
167     public String toString() {
168         return "hotelInfo [name=" + name + ", roomNum=" + roomNum + "];
169     }
170 }
171
```