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Class: SE A
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Subject: OOP&CG

```java
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
inconviniece");
                  }
                }
                else {
```

```java
                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();
        }
}
```

```
 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): 1
Enter room (1-4)3
Room Booked!!
Hotel Booking System....

 1 View rooms
2 Book a room
3 Exit
Enter your choice
```