```java
1   import java.io.*;
2   import java.util.*;
3   import java.text.*;
4   import java.math.*;
5   import java.util.regex.*;
6
7   class Student{
8     //Write your code here..
9     public String name;
10    public int rollNo;
11    public int roomNo=-1;
12    Student(String name,int rollNo)
13    {
14       this.name=name;
15       this.rollNo=rollNo;
16    }
17    public String getName()
18    {
19       return name;
20    }
21    public int getRollNo()
22    {
23       return rollNo;
24    }
25    public int getRoomNo()
26    {
27       return roomNo;
28    }
29    public int setRoomNo(int n)
30    {
31       return roomNo=n;
32    }
33  }
34  class Hostel{
35    //Write your code here..
36    boolean roomBooked[]=new boolean[200];
37    public String bookHostel(Student stud,int roomNo) throws
      UnavailableRoomException {
```

```java
class Hostel{
    //Write your code here..
    boolean roomBooked[]=new boolean[200];
    public String bookHostel(Student stud,int roomNo) throws BookedHostelException,
UnavailableRoomException {
        if(roomBooked[roomNo])
        {
            throw new UnavailableRoomException("Room is already taken");
        }
        else if(stud.getRoomNo()!=-1)
        {
            throw new BookedHostelException("You cannot book your hostel again");
        }
        else
        { stud.setRoomNo(roomNo);
            roomBooked[roomNo]=true;
        }
        return "Hostel booked successfully";
    }
    public int totalAvailableRoom()
    {
        int count=0;
        for(int i=0;i<200;i++)
        {
            if(!(roomBooked[i]))
            count++;
        }
        return count;
    }
}
class UnavailableRoomException extends Exception{
    //Write your code here..
    UnavailableRoomException(String s)
    { super(s);
    }
}

class BookedHostelException extends Exception{
```

```java
        }
        return "Hostel booked successfully";
    }
    public int totalAvailableRoom()
    {
        int count=0;
        for(int i=0;i<200;i++)
        {
            if(!(roomBooked[i]))
            count++;
        }
        return count;
    }
}
class UnavailableRoomException extends Exception{
        //Write your code here..
        UnavailableRoomException(String s)
        { super(s);
        }
}

class BookedHostelException extends Exception{
        //Write your code here..
        BookedHostelException(String s)
        {
            super(s);
        }
}
class Source {
    public static void main(String args[]) throws BookedHostelException,UnavailableRoomException {
        Hostel h=new Hostel();
        Student data1=new Student("steve",10);
        Student data2=new Student("amit",1);
        System.out.println(h.bookHostel(data1,23));
        System.out.println(h.bookHostel(data2,23));
        System.out.println(h.totalAvailableRoom());
    }
}
```

autocomplete ready 🛈

RUN CODE

Results   Custom Input