

```

1  /*
2  NOTE: this program doesnt handle every single error case
3  that is for you to figure out. Here, we only present essential functionality
4  */
5  import java.io.*;
6
7  public class question55
8  {
9      public static void main(String args[])throws IOException
10     {
11         InputStreamReader read=new InputStreamReader(System.in);
12         BufferedReader in=new BufferedReader(read);
13
14         int seats[]=new int[200];
15         int bill=0;
16         int n=0;
17
18         //initializing the array with -1's to signify that a seat hasn't been occupied.
19         //We will insert 1 whenever a seat gets occupied
20         for(int i=0;i<200;i++)
21         {
22             seats[i]=-1;
23         }
24
25         do
26         {
27             System.out.print("Enter \n1. to book seats\n0. to exit ->");
28             n=Integer.parseInt(in.readLine());
29
30             if(n==1)
31             {
32                 System.out.print("Enter the seat type\n1. First class\n2. Business
33                 class\n3. Economy class ->");
34                 int seatttype=Integer.parseInt(in.readLine());
35
36                 System.out.print("Enter the number of seats ->");
37                 int noofseats=Integer.parseInt(in.readLine());
38
39                 int startseatno=0;//this variable stores the starting seat number of the
40                 seats to assign
41                 if(seatttype==1)
42                 {
43                     for(int i=0;i<50;i++)//50 because the first 50 seats are first class
44                     {
45                         if(seats[i]==-1)
46                         {
47                             startseatno=i;
48                             break;
49                         }
50                     }
51
52                     //now reserving the seats
53                     for(int i=startseatno;i<=noofseats;i++)
54                     {
55                         seats[i]=1;//1 means reserving the seats
56                     }
57
58                     bill=noofseats*20000;
59                     System.out.println("Seats booked! Your bill is="+bill);
60                 }
61                 else if(seatttype==2)
62                 {
63                     for(int i=50;i<100;i++)
64                     {

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63         if(seats[i]==-1)
64         {
65             startseatno=i;
66             break;
67         }
68     }
69
70     //now reserving the seats
71     for(int i=startseatno;i<=noofseats;i++)
72     {
73         seats[i]=1;//1 means reserving the seats
74     }
75
76     bill=noofseats*15000;
77     System.out.println("Seats booked! Your bill is="+bill);
78 }
79 else
80 {
81     for(int i=100;i<200;i++)//50 because the first 50 seats are first
        class
82     {
83         if(seats[i]==-1)
84         {
85             startseatno=i;
86             break;
87         }
88     }
89
90     //now reserving the seats
91     for(int i=startseatno;i<=noofseats;i++)
92     {
93         seats[i]=1;//1 means reserving the seats
94     }
95
96     bill=noofseats*10000;
97     System.out.println("Seats booked! Your bill is="+bill);
98 }
99
100 }
101
102 }while(n!=0);
103
104 }
105 }

```