Patient.java

```
1 package problem6;
3 import java.util.*;
5 class Patient {
      // Data members
7
      private static int LastId = 0;
8
      private String name;
9
      private int id;
10
      private ArrayList<Readings> record;
      private int docid;
11
12
      private String docname;
13
      private int status;
14
15
      // Constructor
16
      public Patient(String name, int did, String dname) {
17
          this.name = name;
18
          id = 10000 + lastId++;
19
          docid = did;
20
          docname = dname;
          record = new ArrayList<>();
21
22
          status = 1;
23
      }
24
25
      // Function to assign a doctor
26
      public void assignDoctor(int did, String n) {
27
          docid = did;
28
          docname = new String(n);
29
      }
30
31
      // Function to set bp and temp
32
      public void setRecord(Readings r) {
33
          record.add(r);
34
35
36
      // Function to check if a patient is still in hospital
37
      public boolean isChecked() {
38
          return status == 1;
39
40
41
      // Function to check out a patient
42
      public void checkOut() {
43
          status = 0;
44
45
46
      // Function to get id
      public int getId() {
47
48
          return id;
49
50
      // Function to get docid
51
52
      public int getDocId() {
53
          return docid;
54
      }
55
56
      // Function to display
57
      public void display() {
58
          System.out.println("Id: " + id + "\nName: " + name);
59
          if (docid == 0)
60
               System.out.println("Assigned to: None");
61
               System.out.println("Assigned to: " + docname);
62
```

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```
63
      }
64
65
      // Function to show all readings
       public void showReadings() {
66
           System.out.println("Taken by: " + docname);
System.out.println("-----");
67
68
           for (Readings r : record) {
    System.out.println(r);
    System.out.println("-----");
69
70
71
72
           }
73
       }
74 }
```