Program Codes Document

Overall Program Codes

```java
1  package Package_3;
2
3  import java.util.Scanner;
4
5  public class APCSP_HospitalSoftware {
6
7      public static void main(String[] args) {
8          String[] patientList = new String[1000];
9          patientList[0] = "Bob";
10         patientList[1] = "Ryan";
11         patientList[2] = "Lucy";
12         int patientNumber = 3;
13
14         Scanner scan = new Scanner (System.in);
15
16         System.out.println("Hello!");
17
18         System.out.println("Have you visited this hospital before?");
19         String visit = scan.nextLine();
20
21         System.out.println("What is your name?");
22         String name = scan.nextLine();
23
24         if (visit.equals("Yes")) {
25             search(name, patientList, patientNumber);
26         }
27
28         else {
29             patientList[patientNumber] = name;
30             System.out.println("Your name is added on the patientList.");
31         }
32     }
33
34
35     public static void search(String name, String[] patientList, int patientNumber) {
36         boolean exist = false;
37         for (int i = 0; i < patientNumber ; i++) {
38             if (patientList[i].equals(name)) {
39                 exist = true;
40                 System.out.println("Welcome! " + name);
41             }
42         }
43         if (!exist) {
44             System.out.println("Sorry, but we cannot find your information.");
45         }
46     }
47 }
48
```

Main Method

```java
 7      public static void main(String[] args) {
 8          String[] patientList = new String[1000];
 9          patientList[0] = "Bob";
10          patientList[1] = "Ryan";
11          patientList[2] = "Lucy";
12          int patientNumber = 3;
13
14          Scanner scan = new Scanner (System.in);
15
16          System.out.println("Hello!");
17
18          System.out.println("Have you visited this hospital before?");
19          String visit = scan.nextLine();
20
21          System.out.println("What is your name?");
22          String name = scan.nextLine();
23
24          if (visit.equals("Yes")) {
25              search(name, patientList, patientNumber);
26          }
27
28          else {
29              patientList[patientNumber] = name;
30              System.out.println("Your name is added on the patientList.");
31          }
32      }
```

Procedure (*search*)

```java
34                      #Return type  #Procedure's name                      #Parameters
35      public static  void   search (String name, String[] patientList, int patientNumber)
36          boolean exist = false;
37  #Iteration for (int i = 0; i < patientNumber ; i++) {
38      #Selection if (patientList[i].equals(name)) {
39                      exist = true;
40  #Sequencing         System.out.println("Welcome! " + name);
41              }
42          }
43  #Selection if (!exist) {
44              System.out.println("Sorry, but we cannot find your information.");
45          }
46      }
47  }
48
```