QUESTION 2:

2.
**Develop a Java program
to create a classPatient with data members pt_id, pt_name, pt_age, doc.**

The
program should include the following functionalities.

.
Accept
n patient details.

.
Accept
a patient id and display his/her details.

.
Accept
the name of the doctor and display the names of all the patients treated by him/her.

```
import java.util.Scanner;

class Patient{

   int p_id, age;
   String p_name, doc;
   static int size;

   Patient (int n){
      size = n;
   }

   void input(){
      Scanner s = new Scanner(System.in);
      System.out.println ("Enter patient id, name, age and doctor name:");
      this.p_id = s.nextInt();
      this.p_name = s.next();
      this.age = s.nextInt();
      this.doc = s.next();
```

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    }
    public String toString(){
        return this.p_id+" "+this.p_name+" "+this.age+" "+this.doc;
    }
}
class patient_main{
    public static void main(String[] args) {
        int x=0;
        Scanner s = new Scanner(System.in);

        System.out.println("Enter the number of patients:");
        int size=s.nextInt();

        Patient p[] = new Patient[size];
        for (int i=0; i<size; i++){
            p[i] = new Patient(size);
            p[i].input();
        }
    while (x==0){
        System.out.println("1:Enter patient ID");
        System.out.println("2:Enter Doctor name");
        System.out.println("3:Exit");

        int choice = s.nextInt();

        switch(choice){
            case 1: System.out.println("Enter patient ID:");
            int id = s.nextInt();

            for (int i=0;i<size; i++){
                if (p[i].p_id==id){
                    System.out.println(p[i]);
                    break;
                }
                if (i==size-1){
                    System.out.println("Patient does not exist!");
                }
            }
            break;

            case 2:System.out.println("Enter dooctor name:");
            String name = s.next();

            for (int i=0;i<size; i++){
                if (p[i].doc.equals(name)){
                    System.out.println(p[i]);
                }
```

```java
            if (i==size){
                System.out.println("Doctor does not exist!");
            }
        }
        break;

        case 3: x=1;
        break;

        default:System.out.println("Enter a valid choice!");
    }
  }
  }
}
```

```
C:\Users\G Sai Madhav\Desktop\OOJ\JAVA PROGRAMS\8TH JAVA PROGRAM>javac patient_main.java

C:\Users\G Sai Madhav\Desktop\OOJ\JAVA PROGRAMS\8TH JAVA PROGRAM>java patient_main
Enter the number of patients:
2
Enter patient id, name, age and doctor name:
1
VIK
20
RAN
Enter patient id, name, age and doctor name:
2
AVI
21
ASH
1:Enter patient ID
2:Enter Doctor name
3:Exit
1
Enter patient ID:
1
1   VIK   20   RAN
1:Enter patient ID
2:Enter Doctor name
3:Exit
1
Enter patient ID:
2
2   AVI   21   ASH
1:Enter patient ID
2:Enter Doctor name
3:Exit
2
Enter dooctor name:
RAN
1   VIK   20   RAN
1:Enter patient ID
2:Enter Doctor name
3:Exit
3

C:\Users\G Sai Madhav\Desktop\OOJ\JAVA PROGRAMS\8TH JAVA PROGRAM>
```