



Final Term Examination

Department of computer science
(Hafiz Hayat Campus)

UNIVERSITY OF GUJRAT

Course title: Object Oriented Programming

Roll-No: 19011519-148

Course code: CS-103

Class: BS-CS 2nd semester

Section: A

Submitted by: Shiraz Ahmed Munir

Submission date: 18, August, 2020



```
package package;
```

```
import java.io.File;
```

```
import java.io.IOException;
```

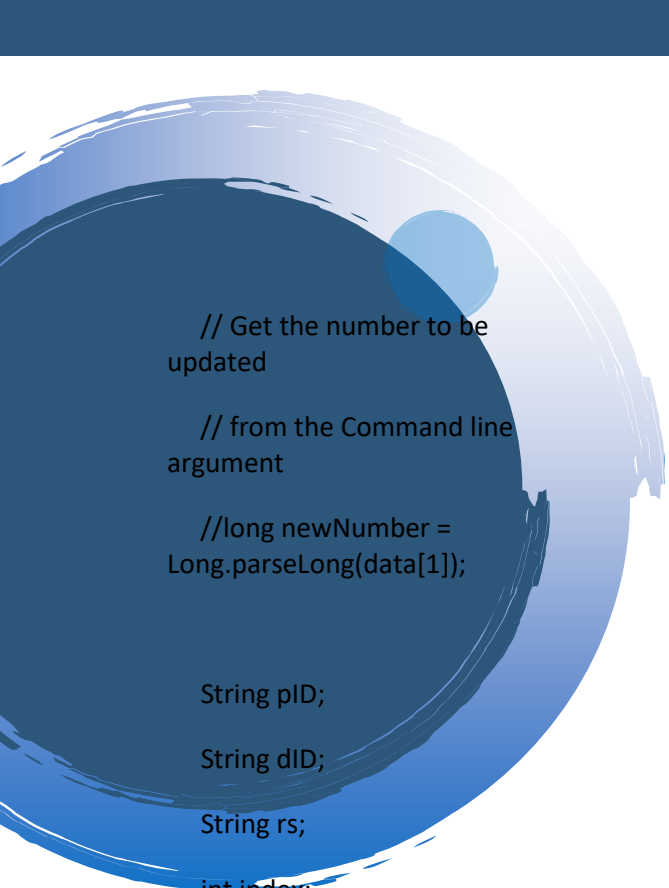
```
import  
java.io.RandomAccessFile;
```

```
import java.util.Scanner;
```

```
public class Report {
```

```
    String patientID  
    ,doctorID ,reoprtStatus ,  
    recordLine;
```



A large, dark blue brushstroke graphic on the left side of the slide, with a lighter blue circular shape inside it.

```
// Get the number to be
updated

// from the Command line
argument

//long newNumber =
Long.parseLong(data[1]);

String pID;

String dID;

String rs;

int index;
```

```
    public void
readRecord() {

        try {

            File file =
new File("patientReport.txt");

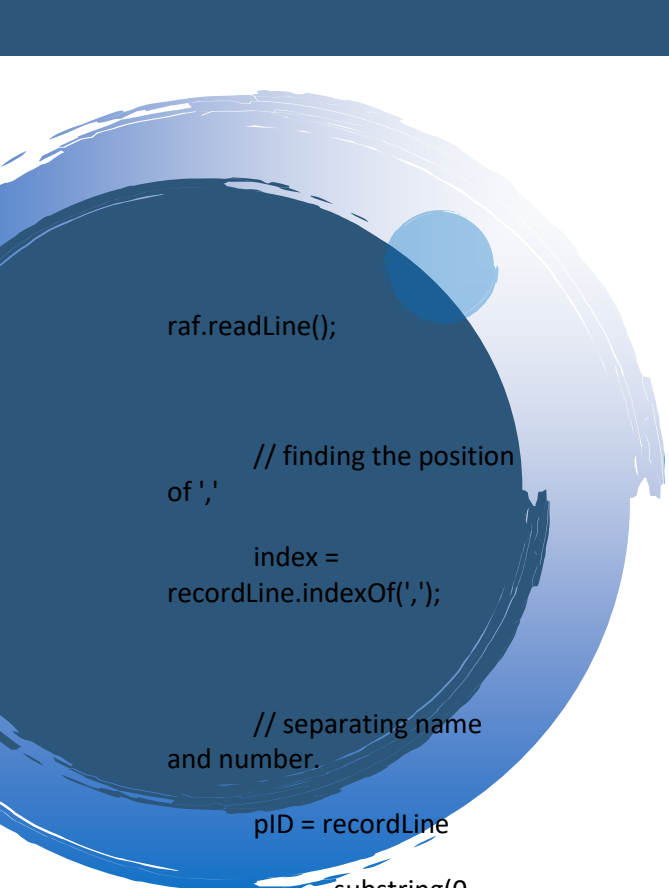
RandomAccessFile raf

            = new
RandomAccessFile(file, "rw");

            while
(raf.getFilePointer() <
raf.length()) {

                // reading line from
the file.

                recordLine =
```



```
raf.readLine();

// finding the position
of ','

index =
recordLine.indexOf(',');

// separating name
and number.

pID = recordLine
.substring(0,
index);

dID
=

recordLine
.substring(1,
index);

rs
=

recordLine
.substring(2,
index);

System.out.println("Patient
```



ID: "

+ pID + "\n"

+ "Doctor ID: "

+ dID + "\n"

+ "Report Status: "

+ rs + "\n");

// if condition to find
existence of record.

}

}

catch

(IOException ioe) {

System.out.println(ioe);

}

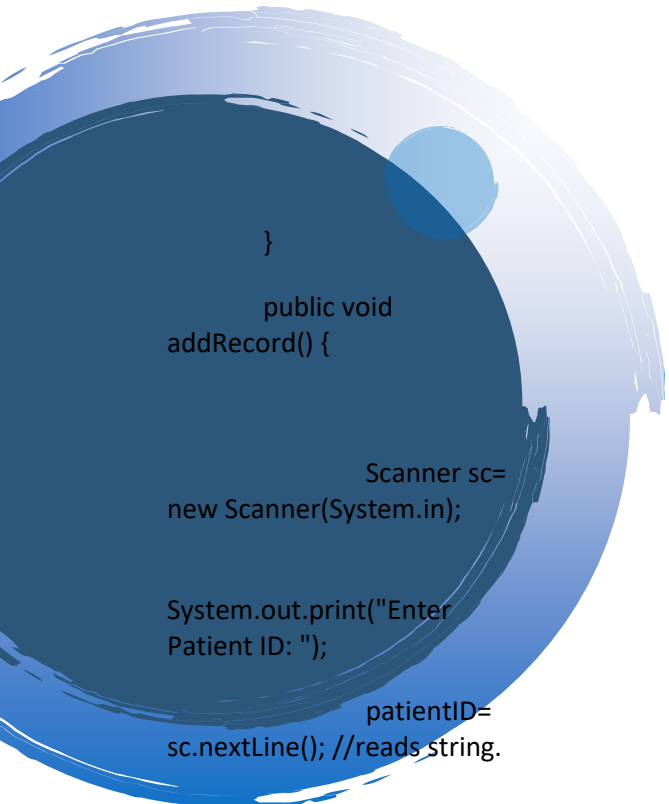
catch

(NumberFormatException

nef) {

System.out.println(nef);

}

A large, dark blue brushstroke graphic with a lighter blue circular highlight on its upper right side, partially enclosing the first part of the code.

```
}  
  
    public void  
    addRecord() {  
  
        Scanner sc=  
        new Scanner(System.in);  
  
        System.out.print("Enter  
        Patient ID: ");  
  
        patientID=  
        sc.nextLine(); //reads string.
```

```
        System.out.print("Enter  
        Doctor ID: ");
```

```
        doctorID=  
        sc.nextLine(); //reads string.
```

```
        System.out.print("Enter  
        Report Status: ");
```

```
        reoportStatus= sc.nextLine();  
        //reads string.
```

```
        try {
```

```
            File
```

```
            file = new  
            File("patientReport.txt");
```

```
            RandomAccessFile raf
```

```
                = new
```

A large, dark blue brushstroke graphic in the top-left corner, with several smaller, lighter blue circles of varying sizes scattered around it.

```
RandomAccessFile(file, "rw");
```

```
boolean found = false;
```

```
while  
(raf.getFilePointer() <  
raf.length()) {
```

```
// reading line  
from the file.
```

```
recordLine =  
raf.readLine();
```

```
// finding the  
position of ','
```

```
index =  
recordLine.indexOf(',');
```

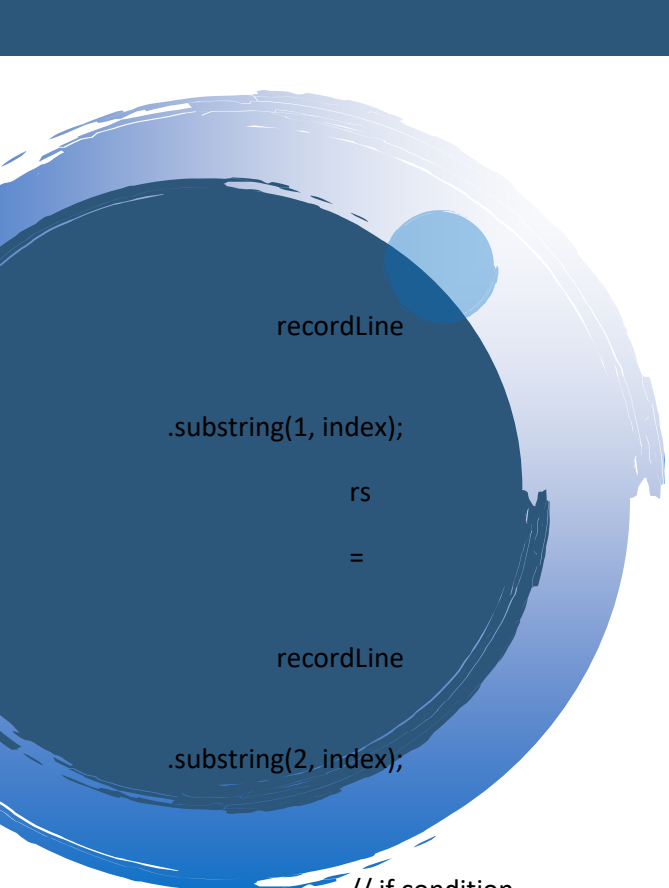
```
// separating  
name and number.
```

```
pID =  
recordLine
```

```
.substring(0, index);
```

```
dID
```

```
=
```



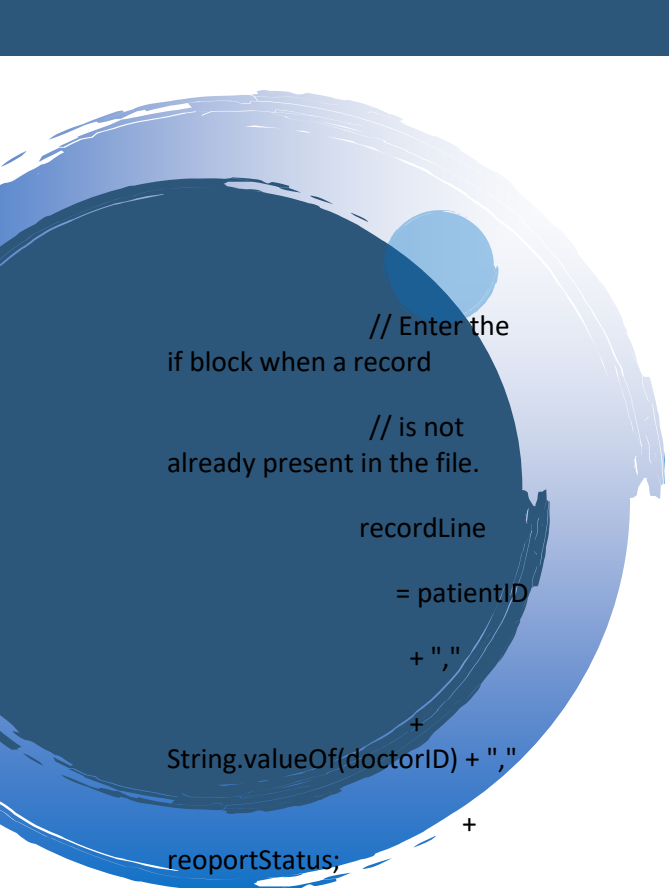
```
recordLine
.substring(1, index);
rs
=
recordLine
.substring(2, index);
// if condition
to find existence of record.
```

```
if
(patientID.equals(pID) ) {
    found =
true;

    break;
}
```

```
}

if
(found == false) {
```

```
// Enter the  
if block when a record  
  
// is not  
already present in the file.  
  
recordLine  
    = patientID  
    + ","  
    +  
    String.valueOf(doctorID) + ","  
    +  
    reoportStatus;
```

```
System.out.println(re  
cordLine);
```

```
// writeBytes  
function to write a string
```

```
// as a  
sequence of bytes.
```

```
raf.writeBytes(recordLine);
```

```
// To insert  
the next record in new line.
```

```
raf.writeBytes(System.lineSep  
arator());
```



```
// Print the  
message
```

```
System.out.println(" Report  
record added.");
```

```
// Closing  
the resources.
```

```
raf.close();
```

```
}
```

```
// The contact  
to be updated
```

```
// could not be  
found
```

```
else {
```

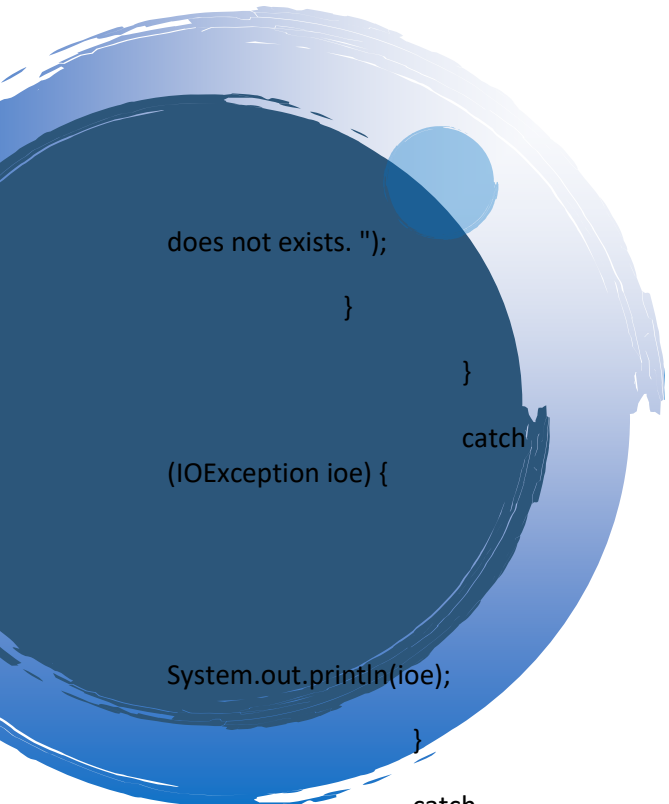
```
// Closing  
the resources.
```

```
raf.close();
```

```
// Print the  
message
```

```
System.out.println(" Report  
record"
```

```
+ "
```



```
does not exists. ");
```

```
}
```

```
}
```

```
catch
```

```
(IOException ioe) {
```

```
System.out.println(ioe);
```

```
}
```

```
catch
```

```
(NumberFormatException  
nef) {
```

```
System.out.println(nef);
```

```
}
```

```
}
```

```
public void  
recordByID(String patient) {
```

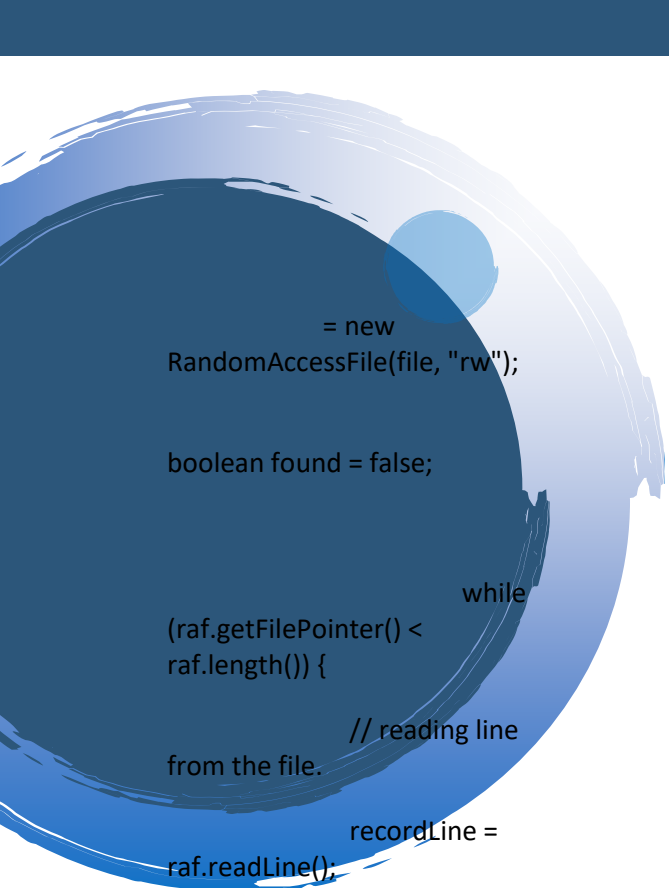
```
try {
```

```
File
```

```
file = new
```

```
File("patientReport.txt");
```

```
RandomAccessFile raf
```



```
        = new  
RandomAccessFile(file, "rw");
```

```
boolean found = false;
```

```
        while  
(raf.getFilePointer() <  
raf.length()) {
```

```
            // reading line  
            from the file.
```

```
            recordLine =  
raf.readLine();
```

```
            // finding the  
            position of ','
```

```
            index =  
recordLine.indexOf(',');
```

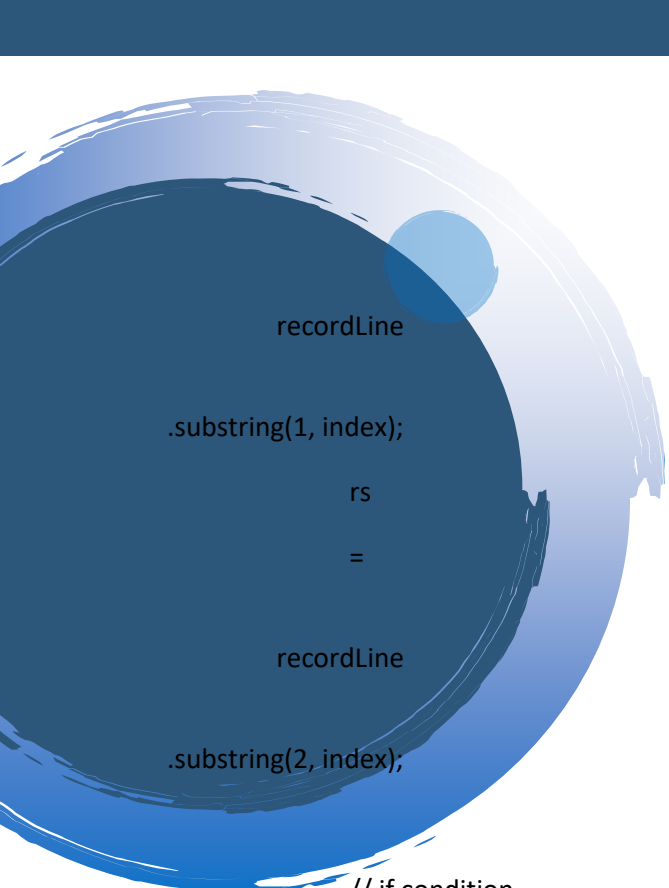
```
            // separating  
            name and number.
```

```
            pID =  
recordLine
```

```
.substring(0, index);
```

```
            dID
```

```
            =
```



```
recordLine  
  
    .substring(1, index);  
  
    rs  
    =  
  
    recordLine  
  
    .substring(2, index);  
  
    // if condition  
    to find existence of record.
```

```
        if  
(patient.equals(pID) ) {
```

```
System.out.println("Patient  
ID: "
```

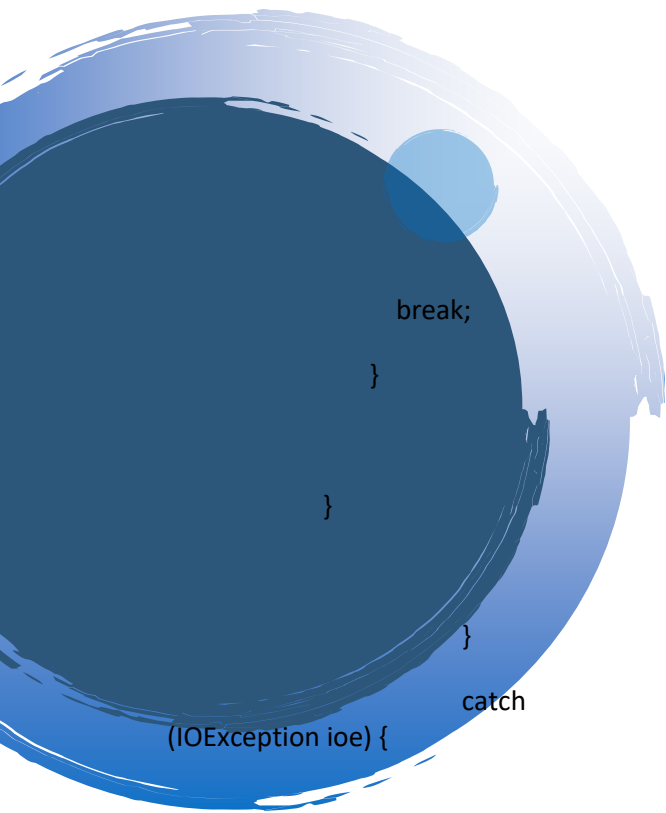
```
                + pID +  
"\n"
```

```
                +  
"Doctor ID: "
```

```
                + dID +  
"\n"
```

```
                +  
"Report Status: "
```

```
                + rs +  
"\n");
```




```
        break;  
    }  
  
    }  
    }  
    catch  
(IOException ioe) {
```

```
        System.out.println(ioe);  
    }  
    catch  
(NumberFormatException  
nef) {
```

```
        System.out.println(nef);  
    }  
    }  
}
```



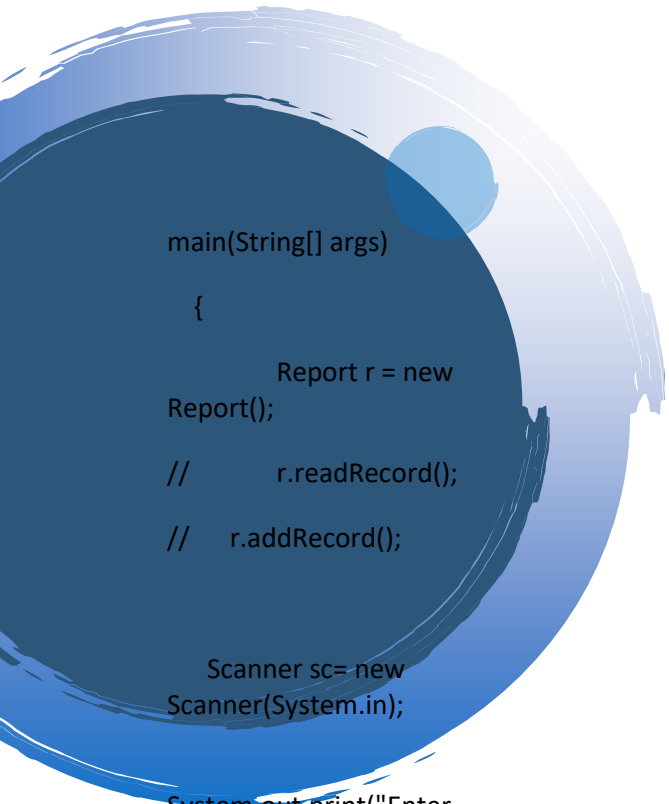


```
import java.io.File;  
import java.io.IOException;  
import  
java.io.RandomAccessFile;  
  
import  
java.lang.NumberFormatExce  
ption;  
  
import java.util.Scanner;
```

```
import package.Report;
```

```
class patientReport {
```

```
    public static void
```



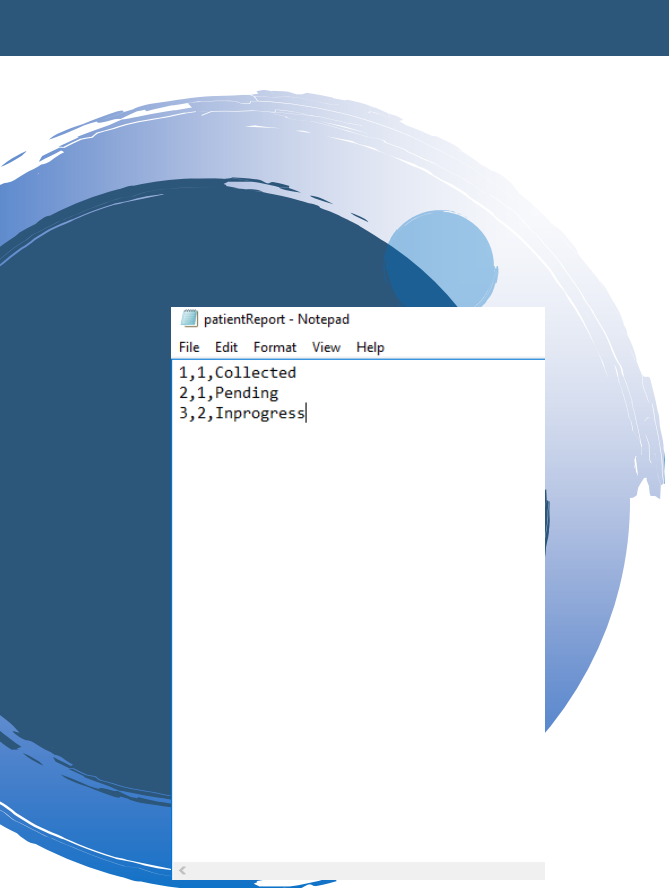
```
main(String[] args)
{
    Report r = new
    Report();
    //    r.readRecord();
    //    r.addRecord();

    Scanner sc= new
    Scanner(System.in);

    System.out.print("Enter
    Patient ID: ");

    String pID=
    sc.nextLine(); //reads string.

    r.recordByID(pID);
}
}
```

patientReport - Notepad

File Edit Format View Help

1,1,Collected
2,1,Pending
3,2,Inprogress|

patientReport [Java Application] C:\Program Files (x86)\Java\jre1.8.0_261\bin\javaw.exe (Aug 18, 2020, 12:52:23 AM)

Enter Patient ID: 2

Enter Doctor ID: 3

Enter Report Status: Inprogress|