Final Term Examination

Department of computer science

(Hafiz Hayat Campus)

UNIVERSITY OF GUJRAT

Course title: Object Oriented Programming

Roll-No: 19011519-147

Course code: CS-103

Class: BS-CS 2nd semester

 Section: **A**

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CODE:

```java
package packege;

import java.io.File;

import java.io.IOException;

import java.io.RandomAccessFile;

import java.util.Scanner;


public class Scheduale {

        String patientID ,doctorID ,timeSchedual , recordLine;


    // Get the number to be updated

    // from the Command line argument

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


    String pID;

    String dID;

        String ts;

    int index;

        public void readRecord() {

                try {

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

                RandomAccessFile raf

    = new RandomAccessFile(file, "rw");

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

        // reading line from the file.
```

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


            // finding the position of ','
            index = recordLine.indexOf(',');


            // separating name and number.
            pID = recordLine
                    .substring(0, index);
            dID
                =
                            recordLine
                    .substring(1, index);
            ts
            =
                            recordLine
                    .substring(2, index);
            System.out.println("Patient ID: "
                    + pID + "\n"
                    + "Doctor ID: "
                    + dID + "\n"
                    + "Time Scheduale: "
                    + ts + "\n");
            // if condition to find existence of record.


        }
            }
                catch (IOException ioe) {


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

```java
        }
        catch (NumberFormatException nef) {

            System.out.println(nef);

        }
}
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 Time Scheduale: ");
        timeSchedual= sc.nextLine(); //reads string.
        try {
                File file = new File("patientTimeScheduale.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.
```

```java
pID = recordLine
        .substring(0, index);
dID
    =
                    recordLine
            .substring(1, index);
ts
=
                    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) + ","
            + timeSchedual;
    System.out.println(recordLine);
```

```java
            // 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.lineSeparator());


            // Print the message
            System.out.println(" Time Scheduale 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(" Time Scheduale"
                    + " does not exists. ");
        }
            }
            catch (IOException ioe) {

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

```java
            catch (NumberFormatException nef) {

                System.out.println(nef);

            }

}

public void recordByID(String patient) {

        try {

                File file = new File("patientTimeScheduale.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);

    ts

    =

                        recordLine
```

```java
                    .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"
                    + "Time Scheduale: "
                    + ts + "\n");


              break;
            }


        }


                }
                  catch (IOException ioe) {


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


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


import java.io.File;
```

```java
import java.io.IOException;
import java.io.RandomAccessFile;
import java.lang.NumberFormatException;
import java.util.Scanner;

import packege.Scheduale;



class patientTimeScheduale {

    public static void main(String[] args)
    {
        Scheduale r = new Scheduale();
      //  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);
    }
}
```

Enter Patient ID: 4

Enter Doctor ID: 1

Enter Time Scheduale: 21/8/2020 09:00 AM

```
1 1,1,24/8/2020 09:00 AM
2 2,1,22/8/2020 09:00 AM
3 3,2,19/8/2020 09:00 AM
4 4,2,21/8/2020 09:00 AM
```