

A Mini Project Report
on
Quiz

Course: Object Oriented Programming
Sem: III Sec: CSE-A

By

S Sai Suhrut

1602-18-733-044

V Sai Mathur

1602-18-733-042



Department of Computer Science & Engineering

Vasavi College of Engineering (Autonomous)

Ibrahimbagh, Hyderabad-31

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INTRODUCTION

Quiz Application is a GUI Based project. The main objective of the Project on MCQ Quiz Application is to manage the details of Students, Examinations, Marks, Papers. The purpose of the project is to build an application program to reduce the manual work for managing the Students, Examinations, Results, Marks. This Application is developed using Eclipse IDE.

PACKAGES, CLASSES AND FUNCTIONS USED

PACKAGES:

The entire program is written using 2 packages:

1. GUI
2. Logic

CLASSES:

Package GUI contains following file's and respective classes:

1. Calgrid.java

Functions:

- a. public void calc()
- b. public void actionPerformed(ActionEvent ae)

2. finalscore.java

Constructor:

- a. FinalScore(String Examname,int score)

Functions:

- a. void display()

3. NewJPanel.java

Constructor:

- a. public NewJPanel() { initComponents();}

Functions:

- a. private void initComponents()

4. Quizsetterframe.java

Constructors:

- a. Quizsetterframe() {initComponents();}

Functions:

- a. private void initComponents()

5. QuizWriterGUI.java

Functions:

- a. void setup()
- b. public void quizwriter(String examname, String username, String[] user)
- c. public String twodigits(int i)
- d. public void actionPerformed(ActionEvent a)
- e. final static void submitexam(JFrame a)
- f. public void nextques()

g. public void questionchanger()

h. public int choosenoption()

6. StudentLogin.java

Constructors:

a. StudentLogin(String path, String examname, QuizWriterGUI quiz)

Functions:

a. private String[] validator(String username, char[] cs)

b. public void actionPerformed(ActionEvent ae)

Package Logic contains following file:

1. Question.java

Constructors:

a. public Question(String question, String option1, String option2, String option3, String option4, int correct_option, int posmark, int negmark)

Functions:

a. public static int evaluator(ArrayList<Question>a, ArrayList<Integer>selected, String path, String studentinfo[], String examname)

```
1 /**
2 *
3 */
4 package GUI;
5
6 import java.awt.BorderLayout;
7 import java.awt.Color;
8 import java.awt.Dimension;
9 import java.awt.FlowLayout;
10 import java.awt.Font;
11 import java.awt.GridLayout;
12 import java.awt.Image;
13 import java.awt.event.ActionEvent;
14 import java.awt.event.ActionListener;
15 import java.io.FileInputStream;
16 import java.io.FileOutputStream;
17 import java.io.ObjectInputStream;
18 import java.util.ArrayList;
19 import javax.swing.*;
20 import javax.swing.filechooser.FileNameExtensionFilter;
21 import javax.swing.filechooser.FileSystemView;
22
23 import Logic.Question;
24
25 /**
26 * @author suhru
27 *
28 */
29 public class QuizWriterGUI implements ActionListener {
30     Thread colourcheck;
31     ArrayList <Question>list=null;
32     ArrayList <JButton>questionbuttons = new ArrayList();
33     ArrayList<Integer>responses=new ArrayList();
34     ArrayList <Boolean>visited=new ArrayList();
35     ArrayList<Boolean> reviewmark=new ArrayList();
36     JLabel posmark= new JLabel("Positive Marks");
37     JLabel negmark= new JLabel("Negative Marks");
38     String studentname,image;
39     NewJPanel question=null;
40     JPanel questionpanel;
41     JFrame quizwrite,settingup;
42     String userdetails[]=null,examname=null;
43     int timeremaining=10800;
44     int index=0;
45     JButton clear=new JButton("Clear"),button1=new JButton("open"),button2=new
46     JButton("open"),markforreview=new JButton("Mark for review and next"),next=new
47     JButton("Next"),prev= new JButton("Previous");
48     Thread t=null;
49     JTextField exam=new JTextField(20),time=new JTextField(20),quizpap=new
50     JTextField(30),studentdat=new JTextField(30);
51     JButton submit,submitexam=new JButton("Submit"),calc=new JButton("Calculator");
52     QuizWriterGUI(){
53
54     }
55     public static void main(String[] args) {
56         new QuizWriterGUI().setup();
57     }
58     public void setup() {
59         /*Setup GUI Part*/
60         this.settingup=new JFrame("Exam Details");
61         this.settingup.setSize(562, 232);
```

```

59     this.settingup.isResizable());
60     JPanel setup=new JPanel();
61     JPanel examname=new JPanel(),examtime=new JPanel(),questionfile=new
JPanel(),studentpanel=new JPanel();
62     // add action listener to the button to capture user
63     // response on buttons
64     button1.addActionListener(this);
65     button2.addActionListener(this);
66     examname.add(new JLabel("Name of the exam: "));
67     examname.add(exam);
68     examtime.add(new JLabel("Exam Time(in min):"));
69     examtime.add(time);
70     questionfile.add(new JLabel("Question file: "));
71     questionfile.add(this.quizpap);
72     questionfile.add(button1);
73     studentpanel.add(new JLabel("Student Database"));
74     studentpanel.add(this.studentdat);
75     studentpanel.add(button2);
76     setup.add(examname);
77     setup.add(examtime);
78     setup.add(questionfile);
79     setup.add(studentpanel);
80     submit=new JButton("submit");
81     submit.addActionListener(this);
82     // setup.add(submit);
83     setup.add(submit);
84     settingup.add(setup);
85     settingup.setResizable(false);
86     settingup.setVisible(true);
87 }
88 //Exam is exam name
89 public void quizwriter(String examname,String username, String[] user) {
90     FileInputStream fin;
91     try
92     {
93         fin = new FileInputStream(quizpap.getText());
94         ObjectInputStream ois = new ObjectInputStream(fin);
95         list = (ArrayList)ois.readObject();
96     }
97     catch(Exception e){}
98     this.examname=examname;
99     this.userdetails=user;
100    ImageIcon icon = new ImageIcon(user[3]);
101    Image scaleImage = icon.getImage().getScaledInstance(95,
106,Image.SCALE_DEFAULT);
102    icon.setImage(scaleImage);
103    //icon=(ImageIcon) scaleImage;
104    quizwrite=new JFrame();
105    questionpanel=new JPanel(new BorderLayout());
106    int n=90;
107    JPanel sidepanel= new JPanel();
108    sidepanel.setLayout(new BoxLayout(sidepanel,BoxLayout.Y_AXIS));
109    questionpanel.setLayout(new GridLayout(n/3,4));
110    for(int i=0;i<list.size();i++) {
111        JButton a=new JButton(String.valueOf(i+1));
112        a.setText(String.valueOf(i+1));
113        a.setBackground(Color.white);
114        a.addActionListener(this);
115        responses.add(a);
116        questionbuttons.add(a);
117        questionpanel.add(a);

```

```
118     visited.add(false);
119     reviewmark.add(false);
120 }
121 int hrs=timerremaining/3600;
122 int min=hrs%3600;
123 int sec=min%60;
124 JLabel timerem=new JLabel("Time remaining:"+String.valueOf(hrs)+":"
125 "+String.valueOf(min)+": "+String.valueOf(sec));
126 timerem.setFont(timerem.getFont().deriveFont (22.0f));
127 sidepanel.add(questionpanel);
128 JScrollPane pane=new JScrollPane(questionpanel);
129 JScrollPane sidepanelpane = new JScrollPane(sidepanel);
130 // 
131 sidepanelpane.setHorizontalScrollBarPolicy(JScrollPane.VERTICAL_SCROLLBAR_ALWAYS);
132 quizwrite.add(sidepanelpane);
133 sidepanel.add(timerem);
134 JPanel studentinfopanel=new JPanel();
135 JPanel studentinfopanel1=new JPanel();
136 studentinfopanel.setLayout(new FlowLayout());
137 studentinfopanel.add(new JLabel(icon));
138 studentinfopanel1.setLayout(new BoxLayout(studentinfopanel1,BoxLayout.Y_AXIS));
139 studentinfopanel1.add(new JLabel("User: "+username));
140 studentinfopanel1.add(new JLabel("Name:"+user[1]));
141 studentinfopanel.add(studentinfopanel1);
142 sidepanel.add(studentinfopanel);
143 sidepanel.add(questionpanel);
144 sidepanel.add(submitexam);
145 //sidepanel.setSize(250,1000);
146 quizwrite.add(sidepanel,BorderLayout.EAST);
147 JPanel Examtitlepanel=new JPanel();
148 JPanel examtitle=new JPanel();
149 JLabel examn=new JLabel(examname);
150 examtitle.setLayout(new BorderLayout());
151 examn.setFont (examn.getFont().deriveFont (18.0f));
152 int red = 0;
153 int green = 0;
154 int blue = 244;
155 Color myBlue = new Color(red,green,blue);
156 examtitle.setBackground(myBlue);
157 examtitle.add(examn,BorderLayout.CENTER);
158 examtitle.setBackground(Color.RED);
159 JPanel timerpan=new JPanel();
160 timerpan.setLayout(new FlowLayout());
161 calc.addActionListener(this);
162 timerpan.add(calc);
163 timerpan.add(this.posmark);
164 timerpan.add(this.negmark);
165 //timerpan.add(timerem);
166 //quizwrite.add(examtitle,BorderLayout.NORTH);
167 Examtitlepanel.add(examtitle);
168 //    Examtitlepanel.add(new JLabel("Exam1"));
169 quizwrite.add(Examtitlepanel,BorderLayout.NORTH);
170 question=new NewJPanel();
171 question.jToggleButton1.setVisible(false);
172 quizwrite.add(question);
173 quizwrite.setVisible(true);
174 JPanel downpanel=new JPanel();
175 Examtitlepanel.setLayout(new BoxLayout(Examtitlepanel,BoxLayout.Y_AXIS));
176 colourcheck= new Thread() {
```

```
177     public void run() {
178         while(true) {
179             for(int i=0;i<list.size();i++) {
180                 Color color=Color.WHITE;
181                 Color color1=Color.BLACK;
182                 if(visited.get(i)) {
183                     if(!reviewmark.get(i)) {
184                         if(responces.get(i)!=0) {
185                             color=color.GREEN;
186                         }
187                         else {
188                             color=color.RED;
189                         }
190                     }
191                     else{
192                         if(responces.get(i)!=0) {
193                             color=color.PINK;
194                             color1=color1.GREEN;
195                         }
196                         else {
197                             color=color.PINK;
198                             color1=color1.RED;
199                         }
200                     }
201                 }
202                 questionbuttons.get(i).setBackground(color);
203                 questionbuttons.get(i).setForeground(color1);
204             }
205             try {
206                 Thread.sleep(1);
207             } catch (InterruptedException e) {
208                 // TODO Auto-generated catch block
209                 e.printStackTrace();
210             }
211         }
212     };
213     colourcheck.start();
214     t=new Thread() {
215         public void run() {
216             while(true) {
217                 timerremaining-=1;
218                 //SwingUtilities.updateComponentTreeUI(quizwrite);
219                 quizwrite.repaint();
220                 quizwrite.revalidate();
221                 int hrs=timerremaining/3600;
222                 int min=(timerremaining%3600)/60;
223                 int sec=timerremaining%60;
224                 timerem.setText("Time remaining:"+twodigits(hrs)+": "+twodigits(min)+" : "+twodigits(sec));
225                 int warningtime=timerremaining/36;
226                 if(timerremaining<300)
227                 {
228
229                     if(timerremaining%2==0) {
230                         timerem.setForeground(Color.RED);
231                         //questionpanel.setVisible(true);
232                     }
233                 else {
234                     timerem.setForeground(Color.BLACK);
235                     //questionpanel.setVisible(false);
236                 }
237             }
238         }
239     };
240 }
```

```
237     }
238
239     }
240     //System.out.println(timeremaining);
241     try {
242         Thread.sleep(1000);
243     } catch (InterruptedException e) {
244         // TODO Auto-generated catch block
245         e.printStackTrace();
246     }
247     if(timeremaining==0) {
248         QuizWriterGUI.submitexam(quizwrite);
249         break;
250     }
251 }
252 };
253 t.start();
255 //JPanel _2buttons=new JPanel();
256 //markforreview
257 //_2buttons.add();
258 downpanel.setLayout(new FlowLayout());
259 downpanel.add(prev);
260 downpanel.add(clear);
261 JPanel nextandreview=new JPanel();
262 nextandreview.setLayout(new FlowLayout());
263 // nextandreview.add(clear);
264 nextandreview.add(submitexam);
265 nextandreview.add(next);
266 nextandreview.add(markforreview);
267 prev.addActionListener(this);
268 next.addActionListener(this);
269 markforreview.addActionListener(this);
270 submitexam.addActionListener(this);
271 clear.addActionListener(this);
272 JPanel downpanel1=new JPanel();
273 downpanel1.setLayout(new BorderLayout());
274 downpanel1.add(nextandreview,BorderLayout.EAST);
275 downpanel1.add(downpanel,BorderLayout.WEST);
276 quizwrite.add(downpanel1,BorderLayout.SOUTH);
277 quizwrite.setExtendedState(JFrame.MAXIMIZED_BOTH);
278 //quizwrite.setWindowDecorationStyle(JRootPane.NONE);
279 Question temp=list.get(index);
280 question.jTextArea1.setText(temp.question);
281 question.jTextArea5.setText(temp.option1);
282 question.jTextArea9.setText(temp.option2);
283 question.jTextArea6.setText(temp.option3);
284 question.jTextArea8.setText(temp.option4);
285 }
286 public String twodigits(int i) {
287     if(i<10)
288         return "0"+i;
289     else
290         return i+"";
291 }
292 public void actionPerformed(ActionEvent a){
293     // System.out.println(responces);
294     JButton button=(JButton)a.getSource();
295     if (a.getSource()==button1) {
296         JFileChooser j = new
JFileChooser(FileSystemView.getFileSystemView().getHomeDirectory());
```

```

297     j.setAcceptAllFileFilterUsed(false);
298     j.setDialogTitle("Select a .txt file");
299     FileNameExtensionFilter restrict = new FileNameExtensionFilter("Only .txt
300 files", "txt");
301     j.addChoosableFileFilter(restrict);
302     int r = j.showSaveDialog(null);
303     if (r == JFileChooser.APPROVE_OPTION)
304     {
305         quizpap.setText(j.getSelectedFile().getAbsolutePath());
306     }
307     else
308         quizpap.setText("the user cancelled the operation");
309     }
310     else if (a.getSource() == button2) {
311         JFileChooser j = new
312         JFileChooser(FileSystemView.getFileSystemView().getHomeDirectory());
313         j.setAcceptAllFileFilterUsed(false);
314         j.setDialogTitle("Select a .csv file");
315         FileNameExtensionFilter restrict = new FileNameExtensionFilter("Only .csv
316 files", "csv");
317         j.addChoosableFileFilter(restrict);
318         int r = j.showSaveDialog(null);
319         if (r == JFileChooser.APPROVE_OPTION)
320         {
321             studentdat.setText(j.getSelectedFile().getAbsolutePath());
322         }
323         else
324             studentdat.setText("the user cancelled the operation");
325     }
326     else if(a.getSource()==submit) {
327         //this.quizwriter(exam.getText());
328         while(true) {
329             if(studentdat.getText().trim().equals("") ||
330 exam.getText().trim().equals("")) {
331                 JOptionPane.showMessageDialog(settingup, "Empty Fields detected", "Error",
332 JOptionPane.ERROR_MESSAGE);
333             }
334             try{
335                 System.out.println(this.studentdat.getText());
336                 this.timerremaining=60*Integer.parseInt(time.getText());
337                 new
338                 StudentLogin(this.studentdat.getText(),this.exam.getText(),this).Login();
339                 this.settingup.setVisible(false);
340                 return;
341             }catch(Exception e) {return;}
342         }
343     else if(a.getSource() == calc) {
344         calgrid.main(null);
345     }
346     else if(a.getSource() == prev) {
347         //4 3 1 2== 1 2 3 4
348         reviewmark.set(index, false);
349         int chosenone=chooseoption();
350         try {
351             }catch(Exception e) {

```

```

352         return;
353     }
354     try {
355         responces.set(index,chooseone);
356     }catch(Exception e){
357         responces.add(chooseone);
358     }
359     if(index>0) {
360         visited.set(index,true);
361         index--;
362         question.buttonGroup1.clearSelection();
363         questionchanger();
364     }
365 }
366 else if(a.getSource()== next) {
367     reviewmark.set(index, false);
368     visited.set(index,true);
369     if(index<list.size()-1) {
370         nextques();
371     }
372 }
373 else if(a.getSource()== markforreview) {
374     reviewmark.set(index, true);
375     visited.set(index,true);
376     if(index<list.size()-1) {
377         nextques();
378     }
379 }
380 else if(a.getSource()== clear)
381 {
382     responces.set(index, 0);
383     question.buttonGroup1.clearSelection();
384 }
385 else if(a.getSource()== submitexam) {
386     responces.set(index,chooseoption());
387     int dialogResult = JOptionPane.showConfirmDialog (null, "Would You like to end
the test", "Warning",JOptionPane.INFORMATION_MESSAGE);
388     if(dialogResult == JOptionPane.YES_OPTION){
389         // Saving code here
390         int score=Question.evaluator(list, responces, this.quizpap.getText(),
this.userdetails,examname);
391         System.out.println("Score:"+score);
392         this.quizwrite.setVisible(false);
393         new FinalScore(examname,score);
394     }
395     else {
396         return;
397     }
398 }
399 else if(Integer.parseInt(button.getText())-1<list.size()) {
400     reviewmark.set(index, false);
401     visited.set(index,true);
402     responces.set(index,chooseoption());
403     index=Integer.parseInt(button.getText())-1;
404     questionchanger();
405 }
406 }
407 final static void submitexam(JFrame a) {
408     a.setVisible(false);
409 }
410 public void nextques() {

```

```
411     if(index<list.size()) {
412         int choosenone=choosenoption();
413         try {
414             responces.set(index,choosenone);
415         }catch(Exception e){
416             responces.add(index,choosenone);
417         }
418         index++;
419         questionchanger();
420     }
421 }
422 public void questionchanger() {
423     Question temp=list.get(index);
424     question.jTextArea1.setText(temp.question);
425     question.jTextArea5.setText(temp.option1);
426     question.jTextArea9.setText(temp.option2);
427     question.jTextArea6.setText(temp.option3);
428     question.jTextArea8.setText(temp.option4);
429     this.posmark.setText("Marks for correct answer: "+temp.posmark);
430     this.negmark.setText("Marks for Wrong answer: -"+temp.negmark);
431     int choosentemp=responces.get(index);
432     if(choosentemp==1)
433         question.jRadioButton4.setSelected(true);
434     else if(choosentemp==2)
435         question.jRadioButton3.setSelected(true);
436     else if(choosentemp==3)
437         question.jRadioButton1.setSelected(true);
438     else if(choosentemp==4)
439         question.jRadioButton2.setSelected(true);
440     else
441         question.buttonGroup1.clearSelection();
442 }
443 public int choosenoption() {
444     int choosenone=0;
445     if(question.jRadioButton1.isSelected()) {
446         choosenone=3;
447     }
448     else if(question.jRadioButton2.isSelected()) {
449         choosenone=4;
450     }
451     else if(question.jRadioButton3.isSelected()) {
452         choosenone=2;
453     }
454     else if(question.jRadioButton4.isSelected()) {
455         choosenone=1;
456     }
457     return choosenone;
458 }
459 }
```

```
1 /**
2  *
3  */
4 package GUI;
5
6 import java.awt.FlowLayout;
7 import java.awt.event.ActionEvent;
8 import java.awt.event.ActionListener;
9 import java.io.BufferedReader;
10 import java.io.FileInputStream;
11 import java.io.FileNotFoundException;
12 import java.io.FileReader;
13 import java.io.IOException;
14
15 import javax.swing.BoxLayout;
16 import javax.swing.JButton;
17 import javax.swing.JFrame;
18 import javax.swing.JLabel;
19 import javax.swing.JOptionPane;
20 import javax.swing.JPanel;
21 import javax.swing.JPasswordField;
22 import javax.swing.JTextField;
23
24 /**
25  * @author suhru
26  *
27 */
28 public class StudentLogin implements ActionListener{
29     private FileReader fis=null;
30     private BufferedReader br=null;
31     String examname=null;
32     QuizWriterGUI quiz=null;
33     JButton submit=null;
34     JFrame login=null;
35     private String path;
36     StudentLogin(String path,String examname,QuizWriterGUI quiz){
37         this.examname=examname;
38         this.quiz=quiz;
39         try {
40             this.path=path;
41             this.fis=new FileReader(path);
42             this.br=new BufferedReader(fis);
43         } catch (FileNotFoundException e) {
44             // TODO Auto-generated catch block
45             e.printStackTrace();
46         }
47     }
48     JTextField username=new JTextField(20);
49     JPasswordField password=new JPasswordField(20);
50     public void Login(){
51         this.login=new JFrame();
52         JPanel loginpanel=new JPanel();
53         loginpanel.setLayout(new FlowLayout());
54         JPanel usernamepanel=new JPanel();
55         usernamepanel.setLayout(new FlowLayout());
56         JPanel passwordpanel=new JPanel();
57         passwordpanel.setLayout(new FlowLayout());
58         usernamepanel.add(new JLabel("Username or Rollno"));
59         usernamepanel.add(this.username);
60         passwordpanel.add(new JLabel("Password:"));
61         passwordpanel.add(this.password);
```

```
62     this.submit=new JButton("submit");
63     this.submit.addActionListener(this);
64     loginpanel.add(usernamepanel);
65     loginpanel.add(passwordpanel);
66     loginpanel.add(submit);
67     login.add(loginpanel);
68     login.setVisible(true);
69     login.setSize(500, 500);
70 }
71 private String[] validator(String username,char[] cs){
72     String userdetails=null;
73     try {
74         userdetails = this.br.readLine();
75     } catch (IOException e1) {
76         // TODO Auto-generated catch block
77         e1.printStackTrace();
78     }
79     int i=0;
80     while(true) {
81         try {
82             this.fis=new FileReader(path);
83         } catch (FileNotFoundException e1) {
84             // TODO Auto-generated catch block
85             e1.printStackTrace();
86         }
87         this.br=new BufferedReader(fis);
88         while(userdetails!=null)
89             try {
90                 String[] a=userdetails.split(",");
91                 System.out.println(a[0]+","+a[1]+","+a[2]+"+ "+a[3]);
92                 if(a[0].equals(username) && a[2].equals(new String(cs))){
93                     System.out.println("IF conition");
94                     return a;
95                 }
96                 userdetails=this.br.readLine();
97             } catch (IOException e) {
98                 // TODO Auto-generated catch block
99                 e.printStackTrace();
100            }catch(ArrayIndexOutOfBoundsException e1) {
101                }
102            }
103        return null;
104    }
105 }
106 }
107 @Override
108 public void actionPerformed(ActionEvent ae) {
109     // TODO Auto-generated method stub
110     if (ae.getSource()==this.submit)
111     {
112         String[] user=this.validator(this.username.getText(),
113         this.password.getPassword());
114         if(user!=null) {
115             quiz.quizwriter(this.examname,this.username.getText(),user);
116             this.login.setVisible(false);
117         }
118         JOptionPane.showMessageDialog(quiz.settingup, "Wrong Credentials","Error",
119         JOptionPane.ERROR_MESSAGE);
120     }
121 }
```

```
121 }  
122
```

```
1 /*
2  * To change this license header, choose License Headers in Project Properties.
3  * To change this template file, choose Tools | Templates
4  * and open the template in the editor.
5 */
6 package GUI;
7
8 import javax.swing.JFrame;
9
10 /**
11 *
12 * @author suhru
13 */
14 public class NewJPanel extends javax.swing.JPanel {
15
16     /**
17      * Creates new form NewJPanel
18      */
19     public static void Main(String args[]) {
20         JFrame j=new JFrame();
21         j.add(new NewJPanel());
22         j.setVisible(true);
23     }
24     public NewJPanel() {
25         initComponents();
26     }
27
28     /**
29      * This method is called from within the constructor to initialize the form.
30      * WARNING: Do NOT modify this code. The content of this method is always
31      * regenerated by the Form Editor.
32      */
33     @SuppressWarnings("unchecked")
34     // <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN:initComponents
35     private void initComponents() {
36
37         buttonGroup1 = new javax.swing.ButtonGroup();
38         jScrollPane1 = new javax.swing.JScrollPane();
39         jTextArea1 = new javax.swing.JTextArea();
40         jRadioButton1 = new javax.swing.JRadioButton();
41         jRadioButton2 = new javax.swing.JRadioButton();
42         jRadioButton3 = new javax.swing.JRadioButton();
43         jRadioButton4 = new javax.swing.JRadioButton();
44         jToggleButton1 = new javax.swing.JToggleButton();
45         jScrollPane5 = new javax.swing.JScrollPane();
46         jTextArea5 = new javax.swing.JTextArea();
47         jScrollPane6 = new javax.swing.JScrollPane();
48         jTextArea6 = new javax.swing.JTextArea();
49         jScrollPane8 = new javax.swing.JScrollPane();
50         jTextArea8 = new javax.swing.JTextArea();
51         jScrollPane9 = new javax.swing.JScrollPane();
52         jTextArea9 = new javax.swing.JTextArea();
53
54         setBackground(new java.awt.Color(255, 255, 255));
55
56         jTextArea1.setColumns(20);
57         jTextArea1.setFont(new java.awt.Font("Monospaced", 0, 24)); // NOI18N
58         jTextArea1.setLineWrap(true);
59         jTextArea1.setRows(5);
60         jTextArea1.setBorder(null);
```

```
61 jTextArea1.setEditable(false);
62 jScrollPane1.setViewportView(jTextArea1);
63
64 jRadioButton1.addActionListener(new java.awt.event.ActionListener() {
65     public void actionPerformed(java.awt.event.ActionEvent evt) {
66         jRadioButton1ActionPerformed(evt);
67     }
68 });
69
70 jRadioButton2.addActionListener(new java.awt.event.ActionListener() {
71     public void actionPerformed(java.awt.event.ActionEvent evt) {
72         jRadioButton2ActionPerformed(evt);
73     }
74 });
75
76 jRadioButton3.addActionListener(new java.awt.event.ActionListener() {
77     public void actionPerformed(java.awt.event.ActionEvent evt) {
78         jRadioButton3ActionPerformed(evt);
79     }
80 });
81
82 jRadioButton4.addActionListener(new java.awt.event.ActionListener() {
83     public void actionPerformed(java.awt.event.ActionEvent evt) {
84         jRadioButton4ActionPerformed(evt);
85     }
86 });
87
88 jToggleButton1.setText("jToggleButton1");
89
90 jTextArea5.setColumns(20);
91 jTextArea5.setFont(new java.awt.Font("Monospaced", 0, 24)); // NOI18N
92 jTextArea5.setLineWrap(true);
93 jTextArea5.setRows(5);
94 jTextArea5.setEditable(false);
95 jScrollPane5.setViewportView(jTextArea5);
96
97 jTextArea6.setColumns(20);
98 jTextArea6.setFont(new java.awt.Font("Monospaced", 0, 24)); // NOI18N
99 jTextArea6.setLineWrap(true);
100 jTextArea6.setRows(5);
101 jTextArea6.setEditable(false);
102 jScrollPane6.setViewportView(jTextArea6);
103
104 jTextArea8.setColumns(20);
105 jTextArea8.setFont(new java.awt.Font("Monospaced", 0, 24)); // NOI18N
106 jTextArea8.setLineWrap(true);
107 jTextArea8.setRows(5);
108 jTextArea8.setEditable(false);
109 jScrollPane8.setViewportView(jTextArea8);
110
111 jTextArea9.setColumns(20);
112 jTextArea9.setFont(new java.awt.Font("Monospaced", 0, 24)); // NOI18N
113 jTextArea9.setLineWrap(true);
114 jTextArea9.setRows(5);
115 jTextArea9.setEditable(false);
116 jScrollPane9.setViewportView(jTextArea9);
117
118 buttonGroup1.add(jRadioButton1);
119 buttonGroup1.add(jRadioButton4);
120 buttonGroup1.add(jRadioButton3);
121 buttonGroup1.add(jRadioButton2);
```

```
122     javax.swing.GroupLayout layout = new javax.swing.GroupLayout(this);
123     this.setLayout(layout);
124     layout.setHorizontalGroup(
125         layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
126             .addGroup(layout.createSequentialGroup()
127                 .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
128                     .addGroup(layout.createSequentialGroup()
129                         .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
130                             .addGroup(layout.createSequentialGroup()
131                                 .addGap(26, 26, 26)
132                                 .addComponent(jRadioButton4)
133                                 .addGap(8, 8, 8))
134                             .addGroup(layout.createSequentialGroup()
135                                 .addGap(26, 26, 26)
136                                 .addComponent(jRadioButton3,
137                                     javax.swing.GroupLayout.Alignment.TRAILING)
138                                 .addGap(26, 26, 26)
139                                 .addComponent(jRadioButton2,
140                                     javax.swing.GroupLayout.Alignment.TRAILING)
141                                 .addGap(26, 26, 26)
142                                 .addComponent(jScrollPane1,
143                                     javax.swing.GroupLayout.PREFERRED_SIZE, 1458,
144                                     javax.swing.GroupLayout.PREFERRED_SIZE)
145                                 .addGap(26, 26, 26)
146                                 .addComponent(jScrollPane8,
147                                     javax.swing.GroupLayout.PREFERRED_SIZE, 1458,
148                                     javax.swing.GroupLayout.PREFERRED_SIZE)
149                                 .addGap(26, 26, 26)
150                                 .addComponent(jScrollPane5,
151                                     javax.swing.GroupLayout.PREFERRED_SIZE, 1458,
152                                     javax.swing.GroupLayout.PREFERRED_SIZE)
153                                 .addGap(26, 26, 26)
154                                 .addComponent(jToggleButton1,
155                                     javax.swing.GroupLayout.PREFERRED_SIZE, 23,
156                                     javax.swing.GroupLayout.PREFERRED_SIZE)))
157             );
158             layout.setVerticalGroup(
159                 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
160                     .addGroup(layout.createSequentialGroup()
161                         .addGap(26, 26, 26)
162                         .addComponent(jRadioButton4)
163                         .addGap(26, 26, 26)
164                         .addComponent(jRadioButton3,
165                             javax.swing.GroupLayout.Alignment.TRAILING)
166                         .addGap(26, 26, 26)
167                         .addComponent(jRadioButton2,
168                             javax.swing.GroupLayout.Alignment.TRAILING)
169                         .addGap(26, 26, 26)
170                         .addComponent(jScrollPane1,
171                             javax.swing.GroupLayout.PREFERRED_SIZE, 1458,
172                             javax.swing.GroupLayout.PREFERRED_SIZE)
173                         .addGap(26, 26, 26)
174                         .addComponent(jScrollPane8,
175                             javax.swing.GroupLayout.PREFERRED_SIZE, 1458,
176                             javax.swing.GroupLayout.PREFERRED_SIZE)
177                         .addGap(26, 26, 26)
178                         .addComponent(jScrollPane5,
179                             javax.swing.GroupLayout.PREFERRED_SIZE, 1458,
180                             javax.swing.GroupLayout.PREFERRED_SIZE)
181                         .addGap(26, 26, 26)
182                         .addComponent(jToggleButton1,
183                             javax.swing.GroupLayout.PREFERRED_SIZE, 23,
184                             javax.swing.GroupLayout.PREFERRED_SIZE)))
185         );
186     )
187 
```

```

159         .addComponent(jRadioButton3)
160         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
161             javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
161         .addComponent(jRadioButton1)
162         .addGap(165, 165, 165)
163         .addComponent(jRadioButton2)
164         .addGap(124, 124, 124))
165     .addGroup(layout.createSequentialGroup())
166
166     .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
167         .addGroup(layout.createSequentialGroup()
168             .addGap(473, 473, 473)
169             .addComponent(jToggleButton1,
170                 javax.swing.GroupLayout.PREFERRED_SIZE, 126,
171                 javax.swing.GroupLayout.PREFERRED_SIZE))
170             .addGroup(layout.createSequentialGroup()
171                 .addComponent(jScrollPane1,
172                     javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
173                     javax.swing.GroupLayout.PREFERRED_SIZE)
172                 .addGap(18, 18, 18)
173                 .addComponent(jScrollPane5,
174                     javax.swing.GroupLayout.PREFERRED_SIZE, 171, javax.swing.GroupLayout.PREFERRED_SIZE)
174                 .addGap(18, 18, 18)
175                 .addComponent(jScrollPane9,
176                     javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
177                     javax.swing.GroupLayout.PREFERRED_SIZE)
176                 .addGap(18, 18, 18)
177                 .addComponent(jScrollPane6,
178                     javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
179                     javax.swing.GroupLayout.PREFERRED_SIZE)))
178                 .addGap(18, 18, 18)
179                 .addComponent(jScrollPane8, javax.swing.GroupLayout.PREFERRED_SIZE,
180                     javax.swing.GroupLayout.PREFERRED_SIZE)
180             .addGap(52, Short.MAX_VALUE))
181     );
182 } // </editor-fold> //GEN-END:initComponents
183
184     private void jRadioButton1ActionPerformed(java.awt.event.ActionEvent evt)
185 { //GEN-FIRST:event_jRadioButton1ActionPerformed
186     // TODO add your handling code here:
187 } //GEN-LAST:event_jRadioButton1ActionPerformed
188
188     private void jRadioButton2ActionPerformed(java.awt.event.ActionEvent evt)
189 { //GEN-FIRST:event_jRadioButton2ActionPerformed
190     // TODO add your handling code here:
191 } //GEN-LAST:event_jRadioButton2ActionPerformed
192
192     private void jRadioButton3ActionPerformed(java.awt.event.ActionEvent evt)
193 { //GEN-FIRST:event_jRadioButton3ActionPerformed
194     // TODO add your handling code here:
195 } //GEN-LAST:event_jRadioButton3ActionPerformed
196
196     private void jRadioButton4ActionPerformed(java.awt.event.ActionEvent evt)
197 { //GEN-FIRST:event_jRadioButton4ActionPerformed
198     // TODO add your handling code here:
199 } //GEN-LAST:event_jRadioButton4ActionPerformed
200
201 // Variables declaration - do not modify //GEN-BEGIN:variables
202 public javax.swing.ButtonGroup buttonGroup1;

```

```
203 public javax.swing.JRadioButton jRadioButton1;
204 public javax.swing.JRadioButton jRadioButton2;
205 public javax.swing.JRadioButton jRadioButton3;
206 public javax.swing.JRadioButton jRadioButton4;
207 private javax.swing.JScrollPane jScrollPane1;
208 private javax.swing.JScrollPane jScrollPane5;
209 private javax.swing.JScrollPane jScrollPane6;
210 private javax.swing.JScrollPane jScrollPane8;
211 private javax.swing.JScrollPane jScrollPane9;
212 public javax.swing.JTextArea jTextArea1;
213 public javax.swing.JTextArea jTextArea5;
214 public javax.swing.JTextArea jTextArea6;
215 public javax.swing.JTextArea jTextArea8;
216 public javax.swing.JTextArea jTextArea9;
217 public javax.swing.JToggleButton jToggleButton1;
218 // End of variables declaration//GEN-END:variables
219 }
220 }
```

```
1 package GUI;
2 import java.awt.*;
3 import java.awt.event.ActionEvent;
4 import java.awt.event.ActionListener;
5 import javax.swing.*;
6 public class calgrid implements ActionListener
7 {
8
9     JButton b0;
10    JButton b1,b2,b3,b4,b5,b6,b7,b8,b9,a,s,m,d,sub;
11    JTextField t;
12    JLabel l1;
13    Font f;
14    double c,b,res;
15    int op;
16    public static void main(String args[]) {
17        new calgrid().calc();
18    }
19    public void calc() {
20        JFrame frame=new JFrame("Calculator");
21        l1 = new JLabel();
22        b0 = new JButton("0");
23        b1 = new JButton("1");
24        b2 = new JButton("2");
25        b3 = new JButton("3");
26        b4 = new JButton("4");
27        b5 = new JButton("5");
28        b6 = new JButton("6");
29        b7 = new JButton("7");
30        b8 = new JButton("8");
31        b9 = new JButton("9");
32        a = new JButton("+");
33        s = new JButton("-");
34        m = new JButton("*");
35        d = new JButton("/");
36        f = new Font("Elephant",Font.ITALIC,28);
37        sub = new JButton("SUBMIT");
38        t = new JTextField(20);
39        b0.addActionListener(this);
40        b1.addActionListener(this);
41        b2.addActionListener(this);
42        b3.addActionListener(this);
43        b4.addActionListener(this);
44        b5.addActionListener(this);
45        b6.addActionListener(this);
46        b7.addActionListener(this);
47        b8.addActionListener(this);
48        b9.addActionListener(this);
49        a.addActionListener(this);
50        s.addActionListener(this);
51        m.addActionListener(this);
52        d.addActionListener(this);
53        sub.addActionListener(this);
54        JPanel grid=new JPanel(new GridLayout(3,4));
55        grid.add(s);
56        grid.add(b7);
57        grid.add(b8);
58        grid.add(b9);
59        grid.add(a);
60        grid.add(b4);
61        grid.add(b5);
```

```
62     grid.add(b6);
63     grid.add(d);
64     grid.add(b1);
65     grid.add(b2);
66     grid.add(b3);
67     JPanel zerosubmit = new JPanel();
68     zerosubmit.add(m);
69     zerosubmit.add(b0);
70     JPanel downpannel=new JPanel();
71     downpannel.add(zerosubmit);
72     downpannel.add(sub);
73     downpannel.setLayout(new GridLayout());
74     zerosubmit.setLayout(new GridLayout(1,3));
75     JPanel numpan=new JPanel();
76     numpan.add(grid);
77     numpan.add(downpannel);
78     numpan.setLayout(new BoxLayout(numpan,BoxLayout.Y_AXIS));
79     frame.add(numpan);
80     frame.add(t,BorderLayout.NORTH);
81     frame.setSize(250,300);
82     frame.setVisible(true);
83 }
84 public void actionPerformed(ActionEvent ae)
85 {
86     if(ae.getSource() == b0)
87         t.setText(t.getText().concat("0"));
88     if(ae.getSource() == b1)
89         t.setText(t.getText().concat("1"));
90     if(ae.getSource() == b2)
91         t.setText(t.getText().concat("2"));
92     if(ae.getSource() == b3)
93         t.setText(t.getText().concat("3"));
94     if(ae.getSource() == b4)
95         t.setText(t.getText().concat("4"));
96     if(ae.getSource() == b5)
97         t.setText(t.getText().concat("5"));
98     if(ae.getSource() == b6)
99         t.setText(t.getText().concat("6"));
100    if(ae.getSource() == b7)
101        t.setText(t.getText().concat("7"));
102    if(ae.getSource() == b8)
103        t.setText(t.getText().concat("8"));
104    if(ae.getSource() == b9)
105        t.setText(t.getText().concat("9"));
106    if(ae.getSource() == a)
107    {
108        b=Double.parseDouble(t.getText());
109        op=1;
110        t.setText("");
111    }
112    JButton somebutton=(JButton) ae.getSource();
113    b0.setName("Good");
114    System.out.println(somebutton.getName());
115    if(ae.getSource() == s)
116    {
117        b=Double.parseDouble(t.getText());
118        op=2;
119        t.setText("");
120    }
121    if(ae.getSource() == m)
122    {
```

```
123     b=Double.parseDouble(t.getText());
124     op=3;
125     t.setText("");
126 }
127 if(ae.getSource() == d)
128 {
129     b=Double.parseDouble(t.getText());
130     op=4;
131     t.setText("");
132 }
133
134 if(ae.getSource() == sub)
135 {
136     c = Double.parseDouble(t.getText());
137     switch(op)
138     {
139
140         case 1:
141             res = c+b;
142             break;
143         case 2:
144             res = b-c;
145             break;
146         case 3:
147             res = b*c;
148             break;
149         case 4:
150             res = b/c;
151             break;
152         default:
153             res=0;
154     }
155     t.setText(res+"");
156 }
157 }
158 }
```

```
1 /**
2  *
3  */
4 package GUI;
5 import java.awt.BorderLayout;
6 import java.awt.Image;
7
8 import javax.swing.*;
9 /**
10  * @author suhru
11  *
12 */
13 public class FinalScore extends JFrame{
14     JLabel score,Examname;
15     FinalScore(String Examname,int score){
16         this.score=new JLabel("Your Score is :" +String.valueOf(score));
17         this.Examname=new JLabel(Examname);
18         display();
19     }
20     public static void main(String args[]){
21         new FinalScore("Hello",200);
22     }
23     void display() {
24         JPanel a=new JPanel();
25         Examname.setFont (Examname.getFont().deriveFont (24.0f));
26         JLabel thanks=new JLabel("Thanks for writing the exam");
27         thanks.setFont (thanks.getFont().deriveFont (24.0f));
28         score.setFont (score.getFont().deriveFont (24.0f));
29         a.setLayout(new BorderLayout());
30         add(Examname,BorderLayout.NORTH);
31         a.add(thanks,BorderLayout.NORTH);
32         a.add(score,BorderLayout.CENTER);
33         ImageIcon icon = new ImageIcon("C:\\\\Users\\\\suhru\\\\OneDrive\\\\Desktop\\\\Image\\\\bqf-
3029_1_.jpg");
34         //Image scaleImage = icon.getImage().getScaledInstance(95,
35         106,Image.SCALE_DEFAULT);
36         //icon.setImage(scaleImage);
37         add(new JLabel(icon),BorderLayout.SOUTH);
38         add(a,BorderLayout.CENTER);
39         this.setExtendedState(MAXIMIZED_BOTH);
40         this.setVisible(true);
41     }
42 }
43 }
```

```
1
2
3 /*
4  * To change this license header, choose License Headers in Project Properties.
5  * To change this template file, choose Tools | Templates
6  * and open the template in the editor.
7 */
8 package GUI;
9 import java.awt.FlowLayout;
10 import java.awt.event.ActionEvent;
11 import java.awt.event.ActionListener;
12 import java.io.FileOutputStream;
13 import java.io.ObjectOutputStream;
14 import java.util.ArrayList;
15
16 import javax.swing.JButton;
17 import javax.swing.JFileChooser;
18 import javax.swing.JFrame;
19 import javax.swing.JLabel;
20 import javax.swing.JTextArea;
21 import javax.swing.JTextField;
22 import java.util.regex.*;
23 import Logic.*;
24 /**
25 *
26 * @author suhru
27 */
28 public class Quizsetterframe extends javax.swing.JFrame implements ActionListener{
29
30 /**
31 * Creates new form NewJFrame
32 */
33 int index=0;
34 static Quizsetterframe njf;
35 ArrayList<Question>list= new ArrayList();
36 public Quizsetterframe() {
37     initComponents();
38     list.add(new Question("", "", "", "", "", "",0,0,0));
39 }
40 /**
41 * This method is called from within the constructor to initialize the form.
42 * WARNING: Do NOT modify this code. The content of this method is always
43 * regenerated by the Form Editor.
44 */
45 @SuppressWarnings("unchecked")
46 // <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN:initComponents
47 private void initComponents() {
48
49     jPanel4 = new javax.swing.JPanel();
50     jLabel7 = new javax.swing.JLabel();
51     jPanel1 = new javax.swing.JPanel();
52     jLabel1 = new javax.swing.JLabel();
53     jPanel2 = new javax.swing.JPanel();
54     jLabel2 = new javax.swing.JLabel();
55     jLabel3 = new javax.swing.JLabel();
56     jScrollPane1 = new javax.swing.JScrollPane();
57     jTextArea1 = new javax.swing.JTextArea();
58     jScrollPane2 = new javax.swing.JScrollPane();
59     jTextArea2 = new javax.swing.JTextArea();
60     jLabel4 = new javax.swing.JLabel();
```

```
61 jScrollPane3 = new javax.swing.JScrollPane();
62 jTextArea3 = new javax.swing.JTextArea();
63 jLabel5 = new javax.swing.JLabel();
64 jScrollPane4 = new javax.swing.JScrollPane();
65 jTextArea4 = new javax.swing.JTextArea();
66 jLabel6 = new javax.swing.JLabel();
67 jScrollPane5 = new javax.swing.JScrollPane();
68 jTextArea5 = new javax.swing.JTextArea();
69 jPanel3 = new javax.swing.JPanel();
70 filler1 = new javax.swing.Box.Filler(new java.awt.Dimension(0, 0), new
71 java.awt.Dimension(0, 0), new java.awt.Dimension(32767, 32767));
72 jButton2 = new javax.swing.JButton();
73 jButton3 = new javax.swing.JButton();
74 jButton4 = new javax.swing.JButton();
75 jPanel5 = new javax.swing.JPanel();
76 jLabel9 = new javax.swing.JLabel();
77 jTextField1 = new javax.swing.JTextField();
78 jLabel10 = new javax.swing.JLabel();
79 jTextField3 = new javax.swing.JTextField();
80 jLabel8 = new javax.swing.JLabel();
81 jComboBox1 = new javax.swing.JComboBox<>();
82
83         javax.swing.GroupLayout jPanel4Layout = new
84 javax.swing.GroupLayout(jPanel4);
85         jPanel4.setLayout(jPanel4Layout);
86         jPanel4Layout.setHorizontalGroup(
87
88             jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
89                 .addGap(0, 100, Short.MAX_VALUE)
90             );
91         jPanel4Layout.setVerticalGroup(
92
93             jLabel7.setText("jLabel7");
94
95             setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
96
97             jPanel1.setBackground(new java.awt.Color(51, 255, 255));
98
99             jLabel1.setFont(new java.awt.Font("Tahoma", 0, 48)); // NOI18N
100             jLabel1.setText("Question Setter for Quiz");
101
102             jLabel1.setBorder(javax.swing.BorderFactory.createBevelBorder(javax.swing.border.BevelBorder.RAISED));
103
104             javax.swing.GroupLayout jPanel1Layout = new
105 javax.swing.GroupLayout(jPanel1);
106             jPanel1.setLayout(jPanel1Layout);
107             jPanel1Layout.setHorizontalGroup(
108
109                 jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
110                     .addGroup(jPanel1Layout.createSequentialGroup()
111                         .addGap(23, 23, 23)
112                         .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 1063,
113 javax.swing.GroupLayout.PREFERRED_SIZE)
114                             .addGapContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
115 Short.MAX_VALUE))
116             );
```

```
112     jPanel1Layout.setVerticalGroup(  
113  
114         jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
115             .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,  
116                 jPanel1Layout.createSequentialGroup()  
117                     .addContainerGap(24, Short.MAX_VALUE)  
118                     .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 63,  
119                         javax.swing.GroupLayout.PREFERRED_SIZE)  
120                     .addContainerGap())  
121             );  
122  
123     jPanel2.setBackground(new java.awt.Color(255, 51, 153));  
124  
125     jLabel2.setFont(new java.awt.Font("Tahoma", 0, 24)); // NOI18N  
126     jLabel2.setText("Question");  
127  
128     jLabel3.setFont(new java.awt.Font("Tahoma", 0, 24)); // NOI18N  
129     jLabel3.setText("Option 1");  
130  
131     jScrollPane1.setViewportView(jTextArea1);  
132  
133     jLabel4.setFont(new java.awt.Font("Monospaced", 0, 24)); // NOI18N  
134     jLabel4.setColumns(20);  
135     jLabel4.setLineWrap(true);  
136     jLabel4.setRows(5);  
137     jScrollPane2.setViewportView(jTextArea2);  
138  
139     jLabel5.setFont(new java.awt.Font("Monospaced", 0, 24)); // NOI18N  
140     jLabel5.setColumns(20);  
141     jLabel5.setLineWrap(true);  
142     jLabel5.setRows(5);  
143     jScrollPane3.setViewportView(jTextArea3);  
144  
145     jLabel6.setFont(new java.awt.Font("Monospaced", 0, 24)); // NOI18N  
146     jLabel6.setColumns(20);  
147     jLabel6.setLineWrap(true);  
148     jLabel6.setRows(5);  
149     jScrollPane4.setViewportView(jTextArea4);  
150  
151     jLabel7.setFont(new java.awt.Font("Monospaced", 0, 24)); // NOI18N  
152     jLabel7.setColumns(20);  
153     jLabel7.setLineWrap(true);  
154     jLabel7.setRows(5);  
155     jScrollPane5.setViewportView(jTextArea5);  
156  
157     jPanel3.setBackground(new java.awt.Color(255, 255, 0));  
158  
159     jButton2.setFont(new java.awt.Font("Tahoma", 0, 24)); // NOI18N
```

```
170     jButton2.setText("Next");
171     jButton2.addActionListener(new java.awt.event.ActionListener() {
172         public void actionPerformed(java.awt.event.ActionEvent evt) {
173             jButton2ActionPerformed(evt);
174         }
175     });
176
177     jButton3.setFont(new java.awt.Font("Tahoma", 0, 24)); // NOI18N
178     jButton3.setText("Submit Paper");
179     jButton3.addActionListener(new java.awt.event.ActionListener() {
180         public void actionPerformed(java.awt.event.ActionEvent evt) {
181             jButton3ActionPerformed(evt);
182         }
183     });
184
185     jButton4.setFont(new java.awt.Font("Tahoma", 0, 24)); // NOI18N
186     jButton4.setText("Previous");
187     jButton4.addActionListener(new java.awt.event.ActionListener() {
188         public void actionPerformed(java.awt.event.ActionEvent evt) {
189             jButton4ActionPerformed(evt);
190         }
191     });
192
193     javax.swing.GroupLayout jPanel3Layout = new
194     javax.swing.GroupLayout(jPanel3);
195     jPanel3.setLayout(jPanel3Layout);
196     jPanel3Layout.setHorizontalGroup(
197
198         jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
199             .addGroup(jPanel3Layout.createSequentialGroup()
200                 .addGap(121, 121, 121)
201                 .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
202                     .addGroup(jPanel3Layout.createSequentialGroup()
203                         .addGap(640, 640, 640)
204                         .addComponent(jButton4, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
205                         .addGap(286, 286, 286)
206                         .addComponent(jButton3, javax.swing.GroupLayout.PREFERRED_SIZE, 270, javax.swing.GroupLayout.PREFERRED_SIZE)
207                         .addGap(286, 286, 286)
208                         .addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE, 121, javax.swing.GroupLayout.PREFERRED_SIZE)
209                         .addGap(121, 121, 121)
210                     )
211                     .addComponent(jPanel3Layout.createSequentialGroup()
212                         .addGap(121, 121, 121)
213                         .addGroup(jPanel3Layout.createSequentialGroup()
214                             .addGap(121, 121, 121)
215                             .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
216                             .addGap(121, 121, 121)
217                         )
218                     )
219                 )
220             )
221         )
222     );
223     jPanel3Layout.setHorizontalGroup(
224         jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
225             .addGroup(jPanel3Layout.createSequentialGroup()
226                 .addGap(121, 121, 121)
227                 .addGroup(jPanel3Layout.createSequentialGroup()
228                     .addGap(121, 121, 121)
229                     .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
230                     .addGap(121, 121, 121)
231                     .addComponent(jPanel3Layout.createSequentialGroup()
232                         .addGap(121, 121, 121)
233                         .addGroup(jPanel3Layout.createSequentialGroup()
234                             .addGap(121, 121, 121)
235                             .addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE, 121, javax.swing.GroupLayout.PREFERRED_SIZE)
236                             .addGap(121, 121, 121)
237                             .addComponent(jButton3, javax.swing.GroupLayout.PREFERRED_SIZE, 270, javax.swing.GroupLayout.PREFERRED_SIZE)
238                             .addGap(121, 121, 121)
239                             .addComponent(jButton4, javax.swing.GroupLayout.PREFERRED_SIZE, 121, javax.swing.GroupLayout.PREFERRED_SIZE)
240                             .addGap(121, 121, 121)
241                             .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
242                             .addGap(121, 121, 121)
243                         )
244                     )
245                 )
246             )
247         )
248     );
249 
```

```
217     .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
218     .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
219             .addComponent(jButton2,
220                     javax.swing.GroupLayout.PREFERRED_SIZE, 47, javax.swing.GroupLayout.PREFERRED_SIZE)
221             .addComponent(jButton3,
222                     javax.swing.GroupLayout.PREFERRED_SIZE, 47, javax.swing.GroupLayout.PREFERRED_SIZE))
223             .addComponent(jButton4, javax.swing.GroupLayout.PREFERRED_SIZE,
224                     47, javax.swing.GroupLayout.PREFERRED_SIZE))
225             .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
226 Short.MAX_VALUE))
226 );
227
228     jLabel9.setFont(new java.awt.Font("Tahoma", 0, 24)); // NOI18N
229     jLabel9.setText("Marks for Correct Answer");
230
231     jTextField1.setFont(new java.awt.Font("Tahoma", 0, 24)); // NOI18N
232     jTextField1.setBorder(javax.swing.BorderFactory.createLineBorder(new
233 java.awt.Color(0, 0, 0)));
234
235     jLabel10.setFont(new java.awt.Font("Tahoma", 0, 24)); // NOI18N
236     jLabel10.setText("Negative marks for Wrong Answer");
237
238     jTextField3.setFont(new java.awt.Font("Tahoma", 0, 24)); // NOI18N
239     jTextField3.setBorder(javax.swing.BorderFactory.createLineBorder(new
240 java.awt.Color(0, 0, 0)));
241
242     javax.swing.GroupLayout jPanel5Layout = new
243 javax.swing.GroupLayout(jPanel5);
244     jPanel5.setLayout(jPanel5Layout);
245     jPanel5Layout.setHorizontalGroup(
246         jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
247             .addGroup(jPanel5Layout.createSequentialGroup()
248                 .addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
249                     .addComponent(jLabel9, javax.swing.GroupLayout.PREFERRED_SIZE, 284,
250 javax.swing.GroupLayout.PREFERRED_SIZE)
251                     .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,
252                     86, javax.swing.GroupLayout.PREFERRED_SIZE)
253                     .addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
254                         .addGroup(jPanel5Layout.createSequentialGroup()
255                             .addGap(24, 24, 24)
256                             .addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
257                                 .addComponent(jTextField3,
258                     javax.swing.GroupLayout.PREFERRED_SIZE, 35, javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
258         .addComponent(jLabel10)
259         .addComponent(jTextField1,
260             javax.swing.GroupLayout.PREFERRED_SIZE, 35, javax.swing.GroupLayout.PREFERRED_SIZE)
261             .addComponent(jLabel9))
262             .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
263 Short.MAX_VALUE))
262 );
263
264 jLabel8.setFont(new java.awt.Font("Tahoma", 0, 24)); // NOI18N
265 jLabel8.setText("Correct option is :");
266
267 jComboBox1.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] {
268 "Option 1", "Option 2", "Option 3", "Option 4", " " }));
269 jComboBox1.setBorder(javax.swing.BorderFactory.createLineBorder(new
270 java.awt.Color(0, 0, 0)));
271 jComboBox1.addActionListener(new java.awt.event.ActionListener() {
272     public void actionPerformed(java.awt.event.ActionEvent evt) {
273         jComboBox1ActionPerformed(evt);
274     }
275 });
276
277 javax.swing.GroupLayout jPanel2Layout = new
278 javax.swing.GroupLayout(jPanel2);
279 jPanel2.setLayout(jPanel2Layout);
280 jPanel2Layout.setHorizontalGroup(
281
282     jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
283         .addComponent(jPanel5, javax.swing.GroupLayout.DEFAULT_SIZE,
284 javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
285             .addComponent(jPanel3, javax.swing.GroupLayout.Alignment.TRAILING,
286 javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
287 Short.MAX_VALUE)
288             .addGroup(jPanel2Layout.createSequentialGroup()
289                 .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
290                     .addComponent(jLabel12,
291                         javax.swing.GroupLayout.PREFERRED_SIZE, 120, javax.swing.GroupLayout.PREFERRED_SIZE)
292                         .addComponent(jLabel13,
293                             javax.swing.GroupLayout.PREFERRED_SIZE, 93, javax.swing.GroupLayout.PREFERRED_SIZE)
294                             .addComponent(jLabel14,
295                                 javax.swing.GroupLayout.PREFERRED_SIZE, 93, javax.swing.GroupLayout.PREFERRED_SIZE)
296                                 .addComponent(jLabel15,
297                                     javax.swing.GroupLayout.PREFERRED_SIZE, 93, javax.swing.GroupLayout.PREFERRED_SIZE)
298                                     .addComponent(jLabel16,
299                                         javax.swing.GroupLayout.PREFERRED_SIZE, 93, javax.swing.GroupLayout.PREFERRED_SIZE)
299 ))))
300             .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
301
302     .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
303         .addComponent(jScrollPane2,
304             javax.swing.GroupLayout.PREFERRED_SIZE, 961, javax.swing.GroupLayout.PREFERRED_SIZE)
305             .addComponent(jScrollPane1,
306                 javax.swing.GroupLayout.PREFERRED_SIZE, 961, javax.swing.GroupLayout.PREFERRED_SIZE)
```



```

331         .addComponent(jScrollPane4,
332 javax.swing.GroupLayout.PREFERRED_SIZE, 62,
333 javax.swing.GroupLayout.PREFERRED_SIZE)))
334     .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
335             .addGroup(jPanel2Layout.createSequentialGroup()
336                 .addGroup(jPanel2Layout.createParallelGroup()
337                     .addComponent(jScrollPane5,
338 javax.swing.GroupLayout.PREFERRED_SIZE, 62, javax.swing.GroupLayout.PREFERRED_SIZE))
339                 .addGroup(jPanel2Layout.createSequentialGroup()
340                     .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING,
341                         false)
342                         .addComponent(jLabel8, javax.swing.GroupLayout.DEFAULT_SIZE, 42,
343 Short.MAX_VALUE)
343                         .addComponent(jComboBox1))
344                         .addGroup(jPanel5, javax.swing.GroupLayout.PREFERRED_SIZE,
345 javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
346                         .addComponent(jPanel3, javax.swing.GroupLayout.PREFERRED_SIZE, 75,
347 javax.swing.GroupLayout.PREFERRED_SIZE)
348                         .addGroup(jPanel3, javax.swing.GroupLayout.PREFERRED_SIZE, 0,
349 Short.MAX_VALUE))
350         );
351         javax.swing.GroupLayout layout = new
352 javax.swing.GroupLayout(getContentPane());
353         getContentPane().setLayout(layout);
354         layout.setHorizontalGroup(
355             layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
356                 .addGroup(layout.createSequentialGroup()
357                     .addComponent(jPanel11, javax.swing.GroupLayout.DEFAULT_SIZE,
358 javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
359                     .addComponent(jPanel12, javax.swing.GroupLayout.DEFAULT_SIZE,
360 javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
361                 );
362         layout.setVerticalGroup(
363             layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
364                 .addGroup(layout.createSequentialGroup()
365                     .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
366 javax.swing.GroupLayout.PREFERRED_SIZE)
367                     .addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT_SIZE,
368 javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
369                 );
370         pack();
371     } // </editor-fold> //GEN-END:initComponents
372     //JButton 4 indicates previous
373
374     private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) { //GEN-FIRST:event_jButton4ActionPerformed
375         if(index>0) {
376             int correct_option=jComboBox1.getSelectedIndex()+1;

```

```

373 //          Question a=new
374 Question(jTextArea2.getText(),jTextArea1.getText(),jTextArea3.getText(),jTextArea4.g
etText(),jTextArea5.getText(),correct_option,0,0);
375     Question a;
376     try {
377         a=new
378         Question(jTextArea2.getText(),jTextArea1.getText(),jTextArea3.getText(),jTextArea4.g
etText(),jTextArea5.getText(),correct_option,Integer.parseInt(jTextField1.getText())
, Integer.parseInt(jTextField3.getText()));
379         }catch(Exception e) {
380             return;
381         }
382         try {
383             list.set(index, a);
384             }catch(Exception e){
385                 list.add(a);
386             }
387             index--;
388             Question temp=list.get(index);
389             jComboBox1.setSelectedIndex(temp.correct_option-1);
390             jTextArea2.setText(temp.question);
391             jTextArea1.setText(temp.option1);
392             jTextArea3.setText(temp.option2);
393             jTextArea4.setText(temp.option3);
394             jTextArea5.setText(temp.option4);
395             jComboBox1.setSelectedIndex(temp.correct_option-1);
396             jTextField1.setText(String.valueOf(temp.posmark));
397             jTextField3.setText(String.valueOf(temp.negmark));
398             }
399 */
400 * Button3 is submit Button
401 */
402     private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) { //GEN-
FIRST:event_jButton3ActionPerformed
403         // TODO add your handling code here:
404         int correct_option=jComboBox1.getSelectedIndex()+1;
405 //         Question a=new
406         Question(jTextArea2.getText(),jTextArea1.getText(),jTextArea3.getText(),jTextArea4.g
etText(),jTextArea5.getText(),correct_option,0,0);
407         Question a;
408         try {
409             a=new
410             Question(jTextArea2.getText(),jTextArea1.getText(),jTextArea3.getText(),jTextArea4.g
etText(),jTextArea5.getText(),correct_option,Integer.parseInt(jTextField1.getText())
, Integer.parseInt(jTextField3.getText()));
411             }catch(Exception e) {
412                 return;
413             }
414             try {
415                 list.set(index,a);
416                 }catch(Exception e){
417                     list.add(index,a);
418                     }
419                     for(int i=0;i<list.size();i++) {
420                         System.out.println(i+" "+list.get(i).question);
421                     }
422                     f= new JFrame("Save Question File");
423                     f.setLayout(new FlowLayout());
424                     f.add(jf);

```

```

423     f.add(new JLabel("Enter FileName: "));
424     f.add(jt);
425     button.addActionListener(this);
426     f.add(button);
427     f.add(errormsg);
428     errormsg.setVisible(false);
429     f.setSize(500,500);
430     jf.setFileSelectionMode(jf.DIRECTORIES_ONLY);
431     jf.setControlButtonsAreShown(false);
432     f.setDefaultCloseOperation(f.EXIT_ON_CLOSE);
433     f.setResizable(false);
434     f.setVisible(true);
435 } //GEN-LAST:event_jButton3ActionPerformed
436 /*
437 * JButton2 is for NEXT
438 */
439 private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) { //GEN-FIRST:event_jButton2ActionPerformed
440     // TODO add your handling code here:
441     Quizsetterframe.entpropnum.setVisible(false);
442     int correct_option=jComboBox1.getSelectedIndex()+1;
443     Question a;
444     try {
445         a=new
446             Question(jTextArea2.getText(),jTextArea1.getText(),jTextArea3.getText(),jTextArea4.g
447             etText(),jTextArea5.getText(),correct_option,Integer.parseInt(jTextField1.getText())
448             ,Integer.parseInt(jTextField3.getText()));
449     }catch(Exception e) {
450         return;
451     }
452     try {
453         list.set(index,a);
454     }catch(Exception e){
455         list.add(index,a);
456     }
457     index++;
458     try {
459         Question temp=list.get(index);
460         jTextArea2.setText(temp.question);
461         jTextArea1.setText(temp.option1);
462         jTextArea3.setText(temp.option2);
463         jTextArea4.setText(temp.option3);
464         jTextArea5.setText(temp.option4);
465         jComboBox1.setSelectedIndex(temp.correct_option-1);
466         jTextField1.setText(String.valueOf(temp.posmark));
467         jTextField3.setText(String.valueOf(temp.negmark));
468     }catch(Exception e) {
469         Question temp=list.get(index-1);
470         jTextArea2.setText("");
471         jTextArea1.setText("");
472         jTextArea3.setText("");
473         jTextArea4.setText("");
474         jTextArea5.setText("");
475     }
476 } //GEN-LAST:event_jButton2ActionPerformed
477 private void jComboBox1ActionPerformed(java.awt.event.ActionEvent evt) { //GEN-FIRST:event_jComboBox1ActionPerformed
478     // TODO add your handling code here:
479 } //GEN-LAST:event_jComboBox1ActionPerformed

```

```

479
480     /**
481      * @param args the command line arguments
482      */
483     public static void main(String args[]) {
484         /* Set the Nimbus look and feel */
485         //editor-fold defaultstate="collapsed" desc=" Look and feel setting code
486         (optional) "
487         /* If Nimbus (introduced in Java SE 6) is not available, stay with the default
488         look and feel.
489         * For details see
490         http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
491         */
492         try {
493             for (javax.swing.UIManager.LookAndFeelInfo info :
494                 javax.swing.UIManager.getInstalledLookAndFeels()) {
495                 if ("Nimbus".equals(info.getName())) {
496                     javax.swing.UIManager.setLookAndFeel(info.getClassName());
497                     break;
498                 }
499             }
500         } catch (ClassNotFoundException ex) {
501
502             java.util.logging.Logger.getLogger(Quizsetterframe.class.getName()).log(java.util.lo
503             gging.Level.SEVERE, null, ex);
504         } catch (InstantiationException ex) {
505
506             java.util.logging.Logger.getLogger(Quizsetterframe.class.getName()).log(java.util.lo
507             gging.Level.SEVERE, null, ex);
508         } catch (IllegalAccessException ex) {
509
510             java.util.logging.Logger.getLogger(Quizsetterframe.class.getName()).log(java.util.lo
511             gging.Level.SEVERE, null, ex);
512         } catch (javax.swing.UnsupportedLookAndFeelException ex) {
513
514             java.util.logging.Logger.getLogger(Quizsetterframe.class.getName()).log(java.util.lo
515             gging.Level.SEVERE, null, ex);
516         }
517     });
518 }
519
520     // Variables declaration - do not modify//GEN-BEGIN:variables
521     private javax.swing.Box.Filler filler1;
522     private javax.swing.JButton jButton2;
523     private javax.swing.JButton jButton3;
524     private javax.swing.JButton jButton4;
525     private javax.swing.JComboBox<String> jComboBox1;
526     private javax.swing.JLabel jLabel1;
527     private javax.swing.JLabel jLabel10;

```

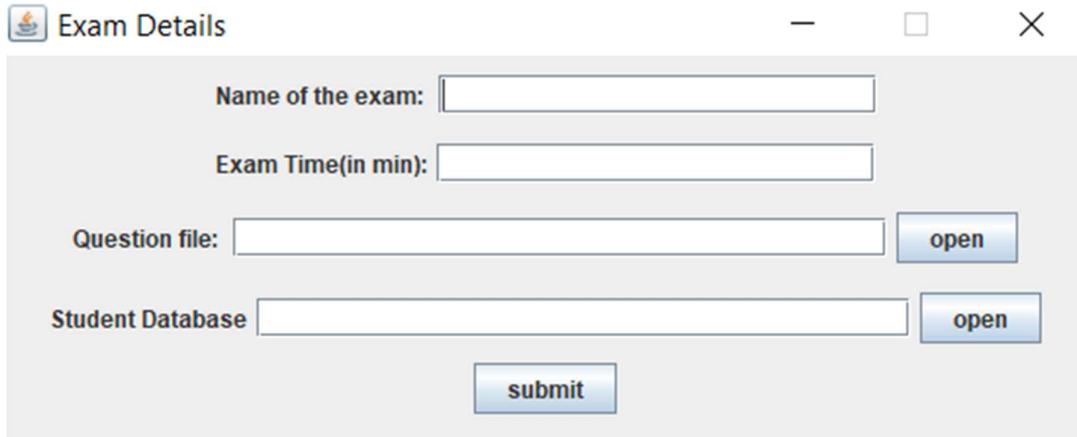
```
528 private javax.swing.JLabel jLabel2;
529 private javax.swing.JLabel jLabel3;
530 private javax.swing.JLabel jLabel4;
531 private javax.swing.JLabel jLabel5;
532 private javax.swing.JLabel jLabel6;
533 private javax.swing.JLabel jLabel7;
534 private javax.swing.JLabel jLabel8;
535 private javax.swing.JLabel jLabel9;
536 private javax.swing.JPanel jPanel1;
537 private javax.swing.JPanel jPanel2;
538 private javax.swing.JPanel jPanel3;
539 private javax.swing.JPanel jPanel4;
540 private javax.swing.JPanel jPanel5;
541 private javax.swing.JScrollPane jScrollPane1;
542 private javax.swing.JScrollPane jScrollPane2;
543 private javax.swing.JScrollPane jScrollPane3;
544 private javax.swing.JScrollPane jScrollPane4;
545 private javax.swing.JScrollPane jScrollPane5;
546 private javax.swing.JTextArea jTextArea1;
547 private javax.swing.JTextArea jTextArea2;
548 private javax.swing.JTextArea jTextArea3;
549 private javax.swing.JTextArea jTextArea4;
550 private javax.swing.JTextArea jTextArea5;
551 private javax.swing.JTextField jTextField1;
552 private javax.swing.JTextField jTextField3;
553 // End of variables declaration//GEN-END:variables
554 static JLabel entpropnum=new JLabel("Please Enter Proper Number");
555 JButton button=new JButton("Save");
556 String regexfile="";
557 JFileChooser jf=new JFileChooser();
558 JTextField jt=new JTextField(20);
559 JLabel errormsg=new JLabel("Please Select a directory");
560 JFrame f;
561 int i=0;
562 public void actionPerformed(ActionEvent ae) {
563     // TODO Auto-generated method stub
564     if(ae.getSource()==button) {
565         try {
566             String destpath=jf.getSelectedFile().getAbsolutePath();
567             FileOutputStream fout;
568             String filename= jt.getText();
569             try {
570                 fout = new FileOutputStream(destpath +filename+".txt");
571                 ObjectOutputStream oos = new ObjectOutputStream(fout);
572                 oos.writeObject(list);
573                 oos.close();
574                 fout.close();
575                 Quizsetterframe.njf.setVisible(false);
576                 f.setVisible(false);
577             }
578         }
579         catch(Exception e){
580             }
581     }catch(Exception e) {
582         errormsg.setVisible(true);
583     }
584 }
585 }
586 }
587 }
```

```
1 package Logic;
2 import java.awt.event.*;
3 import java.io.BufferedReader;
4 import java.io.File;
5 import java.io.FileNotFoundException;
6 import java.io.FileOutputStream;
7 import java.io.FileWriter;
8 import java.io.IOException;
9 import java.io.PrintWriter;
10 import java.io.Serializable;
11 import java.util.ArrayList;
12 import java.applet.*;
13 import javax.swing.*;
14 public class Question implements Serializable
15 {
16     /**
17      *
18      */
19     private static final long serialVersionUID = 1L;
20     static FileOutputStream fos;
21     public static int evaluator(ArrayList <Question>a,ArrayList
22     <Integer>selected,String path,String studentinfo[],String examname) {
23         int marks=0;
24         path=path.replace("\\\\", "/");
25         String[] pathsplit=path.split("/");
26         path="";
27         for(int i1=0;i1<pathsplits.length-1;i1++) {
28             path=path+pathsplits[i1]+("\\\\";
29         }
30         path=path+examname+".csv";
31         try
32         {
33             FileWriter fw = new FileWriter(path,true);
34             BufferedWriter writer = new BufferedWriter(fw);
35             StringBuilder sb = new StringBuilder();
36             sb.append(studentinfo[0]+","+studentinfo[1]+","+studentinfo[2]+","+studentinfo[3]+","+
37             );
38             for(int i=0;i<a.size();i++)
39             {
40                 if(selected.get(i)!=0) {
41                     if(a.get(i).correct_option==selected.get(i)) {
42                         marks+=a.get(i).posmark;
43                         sb.append(String.valueOf(a.get(i).posmark));
44                         sb.append(",");
45                     }
46                     else
47                     {
48                         marks-=java.lang.Math.abs(a.get(i).negmark);
49                         sb.append("-"+String.valueOf(java.lang.Math.abs(a.get(i).negmark)));
50                         sb.append(",");
51                     }
52                 }
53                 else
54                 {
55                     sb.append("0");
56                     sb.append(",");
57                 }
58             }
59             System.out.println("done!");
60             sb.append(String.valueOf(marks));
61         }
62     }
63 }
```

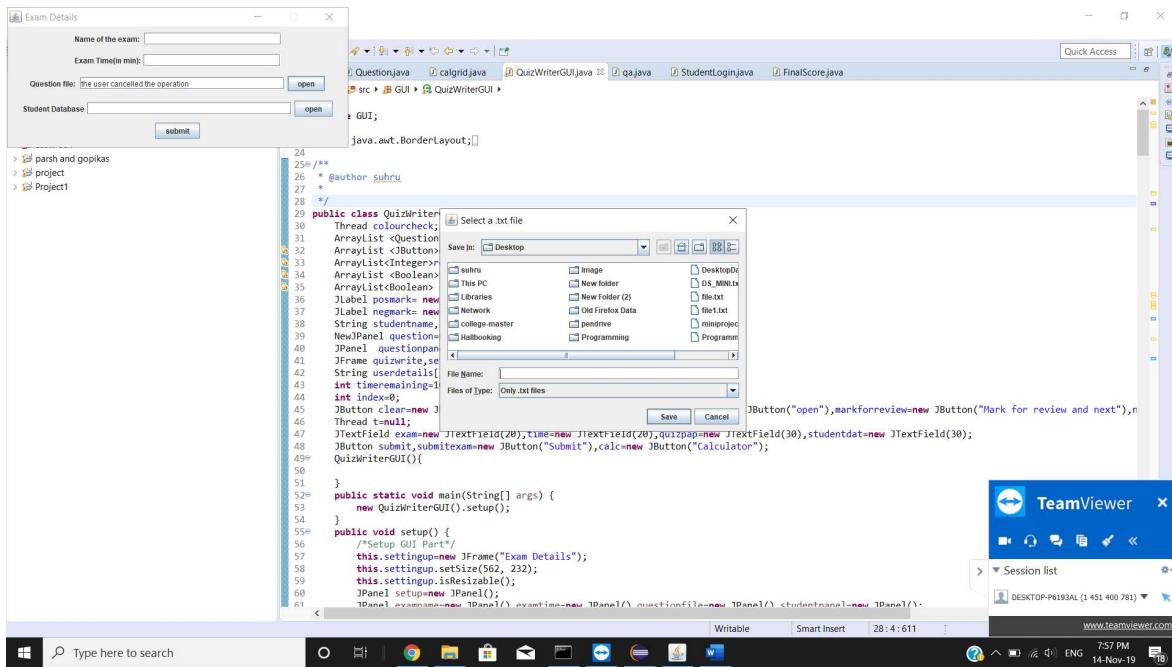
```
59     sb.append("\n");
60     writer.write(sb.toString());
61     writer.close();
62 } catch (FileNotFoundException e) {
63     System.out.println(e.getMessage());
64 } catch (IOException e) {
65     // TODO Auto-generated catch block
66     e.printStackTrace();
67 }
68 return marks;
69 }
70 public Question(String question, String option1, String option2, String option3, String
option4, int correct_option, int posmark, int negmark){
71     this.question=question;
72     this.option1=option1;
73     this.option2=option2;
74     this.option3=option3;
75     this.option4=option4;
76     this.correct_option=correct_option;
77     this.posmark=posmark;
78     this.negmark=negmark;
79 }
80 public int correct_option;
81 public int posmark;
82 public int negmark;
83 public String question;
84 public String option1;
85 public String option2;
86 public String option3;
87 public String option4;
88 public JRadioButton jb1 = new JRadioButton();
89 public JRadioButton jb2 = new JRadioButton();
90 public JRadioButton jb3 = new JRadioButton();
91 public JRadioButton jb4 = new JRadioButton();
92 }
93 }
```

OUTPUT

1. Initial Window to take Exam Details



2. File chooser is opened when open is clicked, which allows you to choose the path of questions file also to choose the path of Student Database where students data will be present.



3. When all details are entered.

 Exam Details

Name of the exam:

Exam Time(in min):

Question file:

Student Database

4. When you click on submit, login screen will be opened.

 - □ ×

Username or Rollno

Password:

5. After entering correct login credentials and clicking on submit we move to quiz screen, where the questions are shown. Also there are question buttons which helps you to navigate through questions easily. There is also a timer which counts down to 0:00.

Time remaining:01 : 28 : 22

User: 1602-18-733-031
Name:PRASHASTHA KOVURI

1	2
3	4
5	6
7	8
9	10
11	12
13	14
15	16
17	18
19	20
21	22
23	24
25	26
27	28
29	30
31	32
33	34
35	36
37	38
39	40
41	42
43	44
45	

Which principle is followed by Queue data structure?

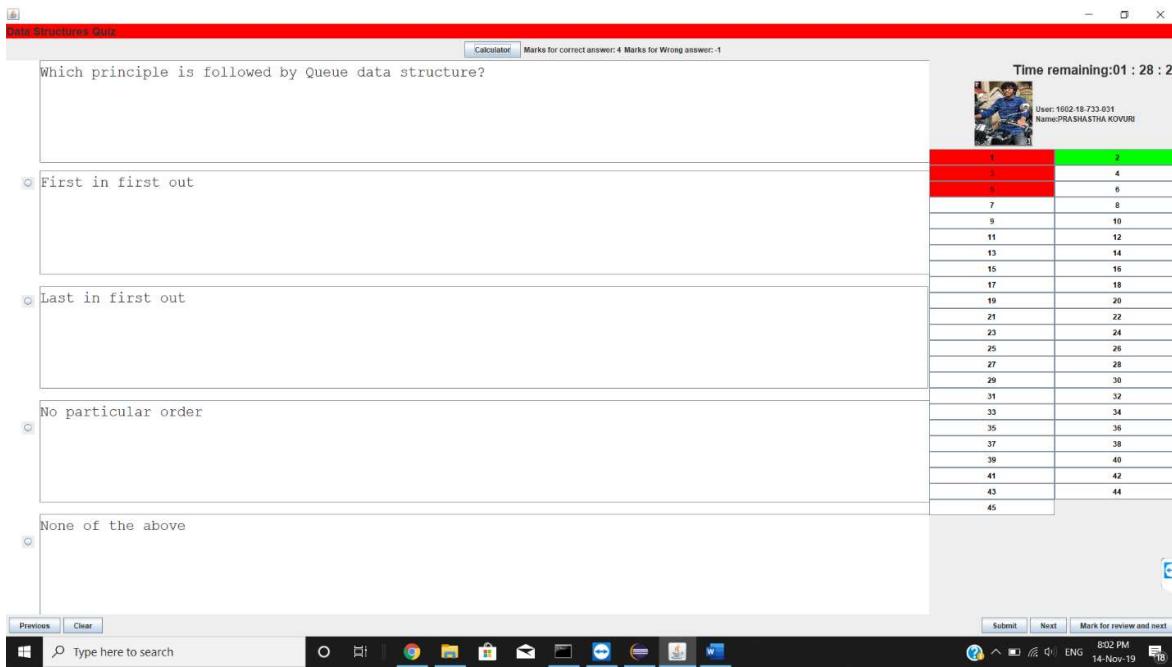
First in first out

Last in first out

No particular order

None of the above

Previous Clear Submit Next Mark for review and next



6. Status of Question Buttons:

 - If a question is not attempted and not marked for review.

 - If a Question is attempted and not marked for review.

 - If a Question is attempted and marked for review.

 - If a Question is not attempted and marked for review.

 -If a Question is not visited.

7. Calculator option is provided for any calculation's to be done during exams. You can also navigate to any question you left or marked for review or not answered at any point of time by just clicking on the question number as you can identify those questions with help of colors.

Calculator Marks for correct answer:4 Marks for Wrong answer:-1

get the information stored in a Binary Search Tree in the descending order, one should traverse which of the following order?

-	7	8	9
*	4	5	6
/	1	2	3
*	0	SUBMIT	

radio buttons: right, root, left, right, right, root, left, right, left, root

Time remaining:01 : 16 : 11

User: 1862-18-733-031
Name:PRASHASTHA KOVURI

1	2
3	4
5	6
7	8
9	10
11	12
13	14
15	16
17	18
19	20
21	22
23	24
25	26
27	28
29	30
31	32
33	34
35	36
37	38
39	40
41	42
43	44
45	

Previous Clear Submit Next Mark for review and next

8. After successful completion of quiz, click on submit button to submit your answers. Then click yes in popup to conform submission. If the time of exam is complete (i.e time shows 0:00, your answers are automatically submitted).

Calculator Marks for correct answer:4 Marks for Wrong answer:-1

Which among the following are applications of queues ?

radio buttons: Queues keep track of events waiting to be handled, like multiple button clicks, Queues are used for evaluation of arithmetic expression, Queues are used in parsing, None of these

Time remaining:01 : 10 : 52

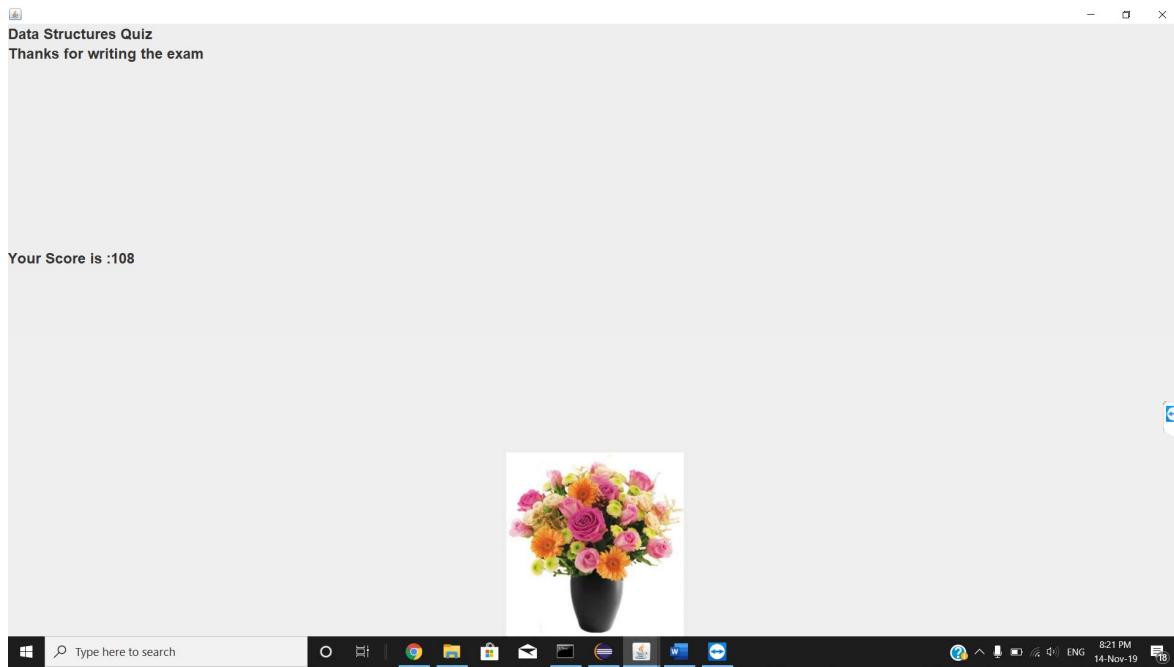
User: 1862-18-733-031
Name:PRASHASTHA KOVURI

1	2
3	4
5	6
7	8
9	10
11	12
13	14
15	16
17	18
19	20
21	22
23	24
25	26
27	28
29	30
31	32
33	34
35	36
37	38
39	40
41	42
43	44
45	

Warning Would You like to end the test
Yes No Cancel

Previous Clear Submit Next Mark for review and next

9. After submitting your answers, you get your score immediately in the following screen.



10. After the exam each candidate's data is stored into a file name “Examname”.csv

A screenshot of Microsoft Excel showing a CSV file named "Data Structures Quiz.csv". The spreadsheet contains one row of data with columns A through R. Column A has the value "1602-18-733-031". Column B has the value "PRASHASTHA KOVURI". Column C has the value "01-06-00". Column D contains the path "C:\Users\suhru\OneDrive\Desktop\Image\prash.png". Columns E through R contain numerical values: E(-1), F(-1), G(4), H(4), I(4), J(4), K(4), L(4), M(4), N(4), O(4), P(4), Q(-1). The taskbar at the bottom shows the file is titled "Data Structures Quiz".

11. Questions can be created by using the following, Question Setter GUI, and positive and negative marks for each question can also be given. Click on submit paper after inserting all the question for the exam.

Question Setter for Quiz

Question `System.out.println(t.x + " " + t.y);
}
}`

Option 1 0 0

Option 2 1 0

Option 3 0 1

Option 4 2 2

Correct option is :

Marks for Correct Answer Negative marks for Wrong Answer

12. On clicking previous we get the result shown in the next image.

Question Setter for Quiz

Question Which of the following is not OOPS concept in Java?

Option 1 Inheritance

Option 2 Encapsulation

Option 3 Polymorphism

Option 4 Compilation

Correct option is :

Marks for Correct Answer Negative marks for Wrong Answer

Question Setter for Quiz

Question `System.out.println(t.x + " " + t.y);
}
}`

Option 1 0 0

Option 2 1 0

Option 3 0 1

Option 4 2 2

Correct option is :

Marks for Correct Answer Negative marks for Wrong Answer

13. After Clicking on submit, you can choose the path to save your question file from file chooser.

Save Question File

Look In: Documents

Adobe Assassin's Creed Odyssey CPY_SAVES Custom Office Templates FonePaw GitHub Log Files Minhas Formas My CamStudio Temp Files My CamStudio Videos

Folder Name: C:\Users\suhru\OneDrive\Documents

Files of Type: All Files

Enter FileName: Save

0 1

Option 4

2 2

Correct option is : Option 1

Marks for Correct Answer 4

Negative marks for Wrong Answer 1

Previous Submit Paper Next