```
import java.awt.*;
import java.awt.event.*;
import javax.swing.*;
import java.util.*;
import java.util.Collection.*;

class Student
{
     String name;
     int regno;
     int sc,quiz;
     double avg;
     Student(int regno,int sc,int
quiz,String name)
     {
          this.name = name;
          this.regno = regno;
          this.sc = sc;
          this.quiz = quiz;
          this.avg = sc/quiz;
     }
     public String toString()
     {
          return("Name : "+name+"\nReg
No : "+regno+"\nScore : "+sc+"\nQuiz
Count : "+quiz+"\nAverage : "+avg+"\n");
     }
}

class QuizManagement
{
     ArrayList<Student> stu;
     QuizManagement()
```

```
     {
          stu = new ArrayList<Student>();
     }
     void add(int regno,int sc,int
quiz,String name)
     {
          Student s = new
Student(regno,sc,quiz,name);
          stu.add(s);
     }
     Student search(int reg)
     {
          for(Student s1 : stu)
          {
               if(s1.regno == reg)
               {
                    return s1;
               }
          }
          return null;
     }
}

class Quizes
{
     JFrame frm;
     JLabel l1,l2,l3,l4;
     JTextField tf1,tf2,tf3,tf4;
     JTextArea ta;
     JButton b1,b2,b3,b4,b5,b6,b7;
     QuizManagement q;
     int c,l;
     Quizes()
```

```
    {
        c = 0;
        l = 0;
        q = new QuizManagement();
        frm = new JFrame();
        frm.setVisible(true);
        frm.setLayout(null);
        frm.setTitle("Quiz
Management");
        frm.setSize(600,600);
        l1 = new JLabel("Name : ");
        l2 = new JLabel("RegNo : ");
        l3 = new JLabel("No.Quiz : ");
        l4 = new JLabel("Scores : ");
        tf1 = new JTextField();
        tf2 = new JTextField();
        tf3 = new JTextField();
        tf4 = new JTextField();
        ta = new JTextArea();
        b1 = new JButton("ADD");
        b2 = new JButton("SEARCH");
        b3 = new JButton("DISPLAY");
        b4 = new JButton("Mfirst");
        b5 = new JButton("Mlast");
        b6 = new JButton("Mnext");
        b7 = new JButton("Mprevious");
        frm.add(ta);
        ta.setBounds(325,50,250,400);
        frm.add(l1);
        l1.setBounds(30,100,75,25);
        frm.add(tf1);
        tf1.setBounds(115,100,80,25);
        frm.add(l2);
```

```
            l2.setBounds(30,200,75,25);
            frm.add(tf2);
            tf2.setBounds(115,200,80,25);
            frm.add(l3);
            l3.setBounds(30,300,75,25);
            frm.add(tf3);
            tf3.setBounds(115,300,80,25);
            frm.add(l4);
            l4.setBounds(30,400,75,25);
            frm.add(tf4);
            tf4.setBounds(115,400,80,25);
            frm.add(b1);
            b1.setBounds(50,450,100,20);
            b1.addActionListener(new
ActionListener(){
                  public void
actionPerformed(ActionEvent ae)
                  {
                        String name =
tf1.getText();
                        int regno =
Integer.parseInt(tf2.getText());
                        int qu =
Integer.parseInt(tf3.getText());
                        int sc =
Integer.parseInt(tf4.getText());
                        if(name == null ||
regno == 0 || sc == 0 || qu == 0)
                        {
                              ta.setText("Null
Value");
                        }
```

```
q.add(regno,sc,qu,name);
                    ta.setText("Added
Successfully!");
                    l++;
                    tf1.setText("");
                    tf2.setText("");
                    tf3.setText("");
                    tf4.setText("");
               }
          });
          frm.add(b2);
          b2.setBounds(175,450,100,20);
          b2.addActionListener(new
ActionListener(){
               public void
actionPerformed(ActionEvent ae)
               {
                    int regno =
Integer.parseInt(tf2.getText());
                    Student s =
q.search(regno);
                    ta.setText(s+"");
               }
          });
          frm.add(b3);
          b3.setBounds(125,500,100,20);
          b3.addActionListener(new
ActionListener(){
               public void
actionPerformed(ActionEvent ae)
               {
                    for(Student s : q.stu)
                    {
```

```
ta.setText(ta.getText()+s+"");
                    }
               }
          });
          frm.add(b4);
          b4.setBounds(325,450,100,20);
          b4.addActionListener(new
ActionListener(){
               public void
actionPerformed(ActionEvent ae)
               {
                    int check = 0;
                    for(Student s : q.stu)
                    {
                         if(check == 0)
                         {

ta.setText(s+"");
                         }
                         check++;
                    }
               }
          });
          frm.add(b5);
          b5.setBounds(450,450,100,20);
          b5.addActionListener(new
ActionListener(){
               public void
actionPerformed(ActionEvent ae)
               {
                    int check = 0;
                    for(Student s : q.stu)
```

```
                    {
                         if(check == l-1)
                         {

ta.setText(s+"");
                         }
                         check++;
                    }
               }
          });
          frm.add(b6);
          b6.setBounds(325,500,100,20);
          b6.addActionListener(new
ActionListener(){
               public void
actionPerformed(ActionEvent ae)
               {
                    int check = 0;
                    if(c<l)
                    {
                         ++c;
                    }
                    for(Student s : q.stu)
                    {
                         if(check == c)
                         {

ta.setText(s+"");
                         }
                         check++;
                    }
               }
          });
```

```
          frm.add(b7);
          b7.setBounds(450,500,100,20);
          b7.addActionListener(new
ActionListener(){
               public void
actionPerformed(ActionEvent ae)
               {
                    int check = 0;
                    if(c>0)
                    {
                         --c;
                    }
                    for(Student s : q.stu)
                    {
                         if(check == c)
                         {

ta.setText(s+"");
                         }
                         check++;
                    }
               }
          });

     }
     public static void main(String
args[])
     {
          new Quizes();
     }
}
```