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JAVA MINI PROJECT

Project:

Quiz on some basics of computer science

Concept used:

GUI, Imagelcon, awt, java swing, actionPerformed

Code:

• name.java

```
import javax.swing.*;
 import java.awt.event.*;
 import java.awt.*;
  public class name implements ActionListener
       JFrame f1;
       JLabel 1,name,img1;
       JButton b;
       JTextField tf;
       name()
           f1 = new JFrame();
          f1.setLayout(null);
           f1.setTitle("DJSCE ADVANCED");
           f1.setVisible(true);
           f1.setSize(1000,600);
           f1.setLocationRelativeTo(null);
           f1.setBackground(Color.WHITE);
           ImageIcon image1 = new
   ImageIcon(getClass().getResource("images/first.png"));
           img1 = new JLabel(image1);
```

```
img1.setBounds(0,0,650,500);
    f1.add(img1);
    1 = new JLabel("Enter your Name");
    1.setFont(new Font("Viner Hand ITC" , Font.BOLD , 20));
    1.setForeground(Color.BLUE);
    1.setBounds(700,150,300,20);
    f1.add(1);
    tf = new JTextField();
    tf.setBounds(700,200,200,20);
    f1.add(tf);
    name = new JLabel("* PLEASE ENTER YOUR CORRECT NAME *");
    name.setBounds(700,220,200,20);
    name.setFont(new Font("Calibri" , Font.PLAIN , 10));
    name.setForeground(Color.RED);
    f1.add(name);
    b = new JButton("SAVE & NEXT");
    b.setBackground(Color.BLUE);
    b.setForeground(Color.WHITE);
    b.setBounds(800,350,120,20);
    b.addActionListener(this);
    f1.add(b);
public void actionPerformed(ActionEvent a)
    String name = tf.getText();
    f1.setVisible(false);
    new rule(name);
public static void main(String [] z)
    new name();
}
```

quiz.java

```
    import javax.swing.*;
    import java.awt.event.*;
    import java.awt.*;
    public class quiz implements ActionListener
    {
    String question[][] = new String[5][5];
```

```
String answer[] = new String[5];
    JFrame f2;
    JLabel img2,QNo,Question,verticalimg;
    JButton one, two, three, four, five, submit, save;
    JRadioButton op1,op2,op3,op4;
    ButtonGroup option;
    int q = 0;
    int solved = 0;
    String ans[] = new String[]{null , null , null , null , null };
    JLabel score;
   quiz()
        f2 = new JFrame();
        f2.setVisible(true);
        f2.setSize(1000,500);
        f2.setLayout(null);
        f2.setLocationRelativeTo(null);
        f2.setBackground(Color.WHITE);
        f2.setTitle("DJSCE ADVANCED");
        ImageIcon image2 = new
ImageIcon(getClass().getResource("images/quiz.png"));
        img2 = new JLabel(image2);
        img2.setBounds(10,10,1500,400);
        f2.add(img2);
        QNo = new JLabel("1");
        QNo.setBounds(120,450,20,40);
        QNo.setFont(new Font("Quicksand" , Font.BOLD , 18));
        f2.add(QNo);
        Question = new JLabel();
        Question.setBounds(150,450,800,40);
        Question.setFont(new Font("Quicksand" , Font.BOLD , 18));
        f2.add(Question);
        op1 = new JRadioButton();
        op1.setBounds(150,490,800,40);
        op1.setFont(new Font("Quicksand" , Font.BOLD , 18));
        op1.addActionListener(this);
        f2.add(op1);
        op2 = new JRadioButton();
        op2.setBounds(150,530,800,40);
        op2.setFont(new Font("Quicksand" , Font.BOLD , 18));
        op2.addActionListener(this);
```

```
f2.add(op2);
        op3 = new JRadioButton();
        op3.setBounds(150,570,800,40);
        op3.setFont(new Font("Quicksand" , Font.BOLD , 18));
        op3.addActionListener(this);
        f2.add(op3);
        op4 = new JRadioButton();
        op4.setBounds(150,610,800,40);
        op4.setFont(new Font("Quicksand" , Font.BOLD , 18));
        op4.addActionListener(this);
        f2.add(op4);
        option = new ButtonGroup();
        option.add(op1);
        option.add(op2);
        option.add(op3);
        option.add(op4);
        ImageIcon vertical = new
ImageIcon(getClass().getResource("images/verticalline.png"));
        verticalimg = new JLabel(vertical);
        verticalimg.setBounds(1000,140,5,900);
        f2.add(verticalimg);
        one = new JButton("1");
        one.setBounds(1100,500,40,40);
        one.setBackground(Color.WHITE);
        one.setForeground(Color.BLACK);
        one.addActionListener(this);
        f2.add(one);
        two = new JButton("2");
        two.setBounds(1200,500,40,40);
        two.setBackground(Color.WHITE);
        two.setForeground(Color.BLACK);
        two.addActionListener(this);
        f2.add(two);
        three = new JButton("3");
        three.setBounds(1300,500,40,40);
        three.setBackground(Color.WHITE);
        three.setForeground(Color.BLACK);
        three.addActionListener(this);
        f2.add(three);
```

```
four = new JButton("4");
        four.setBounds(1100,550,40,40);
        four.setBackground(Color.WHITE);
        four.setForeground(Color.BLACK);
        four.addActionListener(this);
        f2.add(four);
        five = new JButton("5");
        five.setBounds(1200,550,40,40);
        five.setBackground(Color.WHITE);
        five.setForeground(Color.BLACK);
        five.addActionListener(this);
        f2.add(five);
        submit = new JButton("EXIT");
        submit.setBounds(1100,700,100,40);
        submit.setBackground(Color.GREEN);
        submit.setForeground(Color.BLACK);
        submit.setEnabled(false);
        submit.addActionListener(this);
        f2.add(submit);
        save = new JButton("SAVE & NEXT");
        save.setBounds(1300,700,120,40);
        save.setBackground(Color.GREEN);
        save.setForeground(Color.BLACK);
        save.addActionListener(this);
        f2.add(save);
        question[0][0] = "Which method can be used to return a string
in upper case letters?";
        question[0][1] = "touppercase()";
        question[0][2] = "toUpperCase()";
        question[0][3] = "tuc()";
        question[0][4] = "uppercase()";
        question[1][0] = "How do you insert SINGLE LINE COMMENTS in
Java code?";
        question[1][1] = "/*";
        question[1][2] = "#";
        question[1][3] = "//";
        question[1][4] = "<--";
        question[2][0] = "Which data type is used to create a variable
that should store text?";
        question[2][1] = "txt";
        question[2][2] = "string";
        question[2][3] = "int";
```

```
question[2][4] = "mystring";
        question[3][0] = "How do you create a variable with the numeric
value 5?";
        question[3][1] = "int a = 5;";
        question[3][2] = "float a = 5;";
        question[3][3] = "int a = 5";
        question[3][4] = "num a = 5;";
        question[4][0] = "How do you create a variable with the
floating number 2.8?";
        question[4][1] = "int x = 2.8";
        question[4][2] = "float x = 2.8f;";
        question[4][3] = "x = 2.8;";
        question[4][4] = "num x = 2.8";
        answer[0] = "toUpperCase()";
        answer[1] = "//";
        answer[2] = "string";
        answer[3] = "int a = 5;";
        answer[4] = "float x = 2.8f;";
        score = new JLabel();
        score.setBounds(100,670,800,60);
        score.setFont(new Font("Viner Hand ITC" , Font.PLAIN , 50));
        f2.add(score);
        start(q);
    void start(int count)
        score.setText("");
        QNo.setText(""+(count+1)+".");
        Question.setText(question[count][0]);
        op1.setText(question[count][1]);
        op2.setText(question[count][2]);
        op3.setText(question[count][3]);
        op4.setText(question[count][4]);
        option.clearSelection();
        op1.setEnabled(true);
        op2.setEnabled(true);
        op3.setEnabled(true);
```

```
op4.setEnabled(true);
    if(solved == 4)
        save.setEnabled(false);
        submit.setEnabled(true);
public void actionPerformed(ActionEvent a)
    if(a.getSource() == save)
        q++;
        start(q);
        score.setText("");
    if(a.getSource() == one)
        q=0;
        start(q);
    if(a.getSource() == two)
        q=1;
        start(q);
    if(a.getSource() == three)
        q=2;
        start(q);
    if(a.getSource() == four)
        q=3;
        start(q);
    if(a.getSource() == five)
        q=4;
        start(q);
    if(op1.isSelected())
        ans[q] = op1.getText();
        op2.setEnabled(false);
        op3.setEnabled(false);
```

```
op4.setEnabled(false);
if(op2.isSelected())
    ans[q] = op2.getText();
    op1.setEnabled(false);
    op3.setEnabled(false);
    op4.setEnabled(false);
if(op3.isSelected())
    ans[q] = op3.getText();
    op1.setEnabled(false);
    op2.setEnabled(false);
    op4.setEnabled(false);
if(op4.isSelected())
    ans[q] = op4.getText();
    op1.setEnabled(false);
    op2.setEnabled(false);
    op3.setEnabled(false);
if(answer[q] == ans[q])
    score.setText("CORRECT ANSWER ");
    score.setForeground(Color.GREEN);
    solved++;
    if(q == 0)
        one.setBackground(Color.GREEN);
        one.setEnabled(false);
    if(q == 1)
        two.setBackground(Color.GREEN);
        two.setEnabled(false);
    if(q == 2)
        three.setBackground(Color.GREEN);
        three.setEnabled(false);
    if(q == 3)
        four.setBackground(Color.GREEN);
        four.setEnabled(false);
```

```
if(q == 4)
            five.setBackground(Color.GREEN);
            five.setEnabled(false);
   if(answer[q] != ans[q] && ans[q] != null)
        score.setText("Wrong Answer");
        score.setForeground(Color.RED);
        solved++;
        if(q == 0)
            one.setBackground(Color.RED);
            one.setEnabled(false);
        if(q == 1)
            two.setBackground(Color.RED);
            two.setEnabled(false);
        if(q == 2)
            three.setBackground(Color.RED);
            three.setEnabled(false);
        if(q == 3)
            four.setBackground(Color.RED);
            four.setEnabled(false);
        if(q == 4)
            five.setBackground(Color.RED);
            five.setEnabled(false);
   if(a.getSource() == submit)
        f2.setVisible(false);
public static void main (String [] z)
   new quiz();
```

```
}}
```

• rule.java

```
import javax.swing.*;
import java.awt.*;
import java.awt.event.*;
public class rule implements ActionListener
    JLabel atb;
    JCheckBox tick;
    String name;
    JButton start;
    JFrame f3;
    rule(String name)
        this.name = name;
        f3 = new JFrame();
        f3.setSize(1000,800);
        f3.setLayout(null);
        f3.setBackground(Color.WHITE);
        f3.setLocationRelativeTo(null);
        f3.setVisible(true);
        JLabel p = new JLabel("WELCOME "+name.toUpperCase()+" DJSCE
ADVANCED OUIZ");
        p.setBounds(250,50,800,40);
        p.setFont(new Font ("Viner Hand ITC" , Font.PLAIN , 20));
        p.setForeground(Color.BLUE);
        f3.add(p);
        JLabel rule = new JLabel();
        rule.setBounds(40,200,800,300);
        rule.setFont(new Font ("Tahoma" , Font .PLAIN , 18));
        rule.setText(
            "<html>"+
                "1.THERE ARE 4 OPTION FOR EACH QUESTION OUT OF WHICH
ONLY IS CORRECT"+"<br>>"+
                "2.ONCE THE OPTION IS SELECTED YOU CANNOT CHANGE IT SO
SELECT OPTION WISELY"+"<br>>"+
                "3.AFTER SELECTING THE OPTION YOU WILL BE ABLE TO KNOW
WHETHER THE ANSWER YOU SELECTED WAS RIGHT OR WRONG"+"<br/>+"<br/>br>"+
                "4.ALSO THE CORRECT ANSWER WILL BE DISPLAY ON THE
SCREEN"+"<br>>"+
                "5.ANY KIND OF CHEATING OR MALPRACTICE IS NOT ALLOWED"+
            "</html>"
```

```
);
        f3.add(rule);
        tick = new JCheckBox();
        tick.setBounds(40,550,20,20);
        tick.addActionListener(this);
        f3.add(tick);
        JLabel read = new JLabel("I have all the instruction carefully
and I am ready to give the quiz");
        read.setBounds(65,550,450,20);
        read.setFont(new Font("Calibri" , Font.PLAIN , 15));
        f3.add(read);
        atb = new JLabel();
        atb.setBounds(400,600,300,40);
        atb.setFont(new Font("Viner Hand ITC" , Font.PLAIN , 20));
        atb.setForeground(Color.BLUE);
        f3.add(atb);
        start = new JButton("Start Quiz");
        start.setBounds(800,650,150,40);
        start.setEnabled(false);
        start.setBackground(Color.BLUE);
        start.setForeground(Color.WHITE);
        start.setFont(new Font("Calibri" , Font.PLAIN , 18));
        start.addActionListener(this);
        f3.add(start);
   public void actionPerformed(ActionEvent e)
        if(tick.isSelected())
            atb.setText("ALL THE BEST");
            start.setEnabled(true);
        if(e.getSource() == start)
            f3.setVisible(false);
            new quiz();
    public static void main(String [] z)
```

```
new rule("Atharva Aditya");}}
```

• tempCodeRunnerFile.java

```
import javax.swing.*;
import java.awt.*;
import java.awt.event.*;
public class tempCodeRunnerFile
    String name;
    tempCodeRunnerFile(String name)
        this.name = name;
        JFrame f3 = new JFrame();
        f3.setSize(1000,800);
        f3.setLayout(null);
        f3.setBackground(Color.WHITE);
        f3.setLocationRelativeTo(null);
        f3.setVisible(true);
        JLabel p = new JLabel("WELCOME "+name.toUpperCase()+" DJSCE
ADVANCED QUIZ");
        p.setBounds(250,50,450,40);
        p.setFont(new Font ("Viner Hand ITC" , Font.PLAIN , 20));
        p.setForeground(Color.BLUE);
        f3.add(p);
        JLabel rule = new JLabel();
        rule.setBounds(40,100,400,100);
        rule.setFont(new Font ("Tahoma" , Font .PLAIN , 18));
        rule.setText(
            "<html>"+
                "1.THERE ARE 4 OPTION FOR EACH QUESTION OUT OF WHICH
ONLY IS CORRECT"+"<br>>"+
                "2.ONCE THE OPTION IS SELECTED YOU CANNOT CHANGE IT SO
SELECT OPTION WISELY"+"<br>>"+
                "3.AFTER SELECTING THE OPTION YOU WILL BE ABLE TO KNOW
WHETHER THE ANSWER YOU SELECTED WAS RIGHT OR WRONG"+"<br/>+"<br/>br>"+
                "4.ALSO THE CORRECT ANSWER WILL BE DISPLAY ON THE
SCREEN"+"<br>>"+
                "5.ANY KIND OF CHEATING OR MALPRACTICE IS NOT ALLOWED"+
            "</html>"
```

```
f3.add(rule);

// JCheckBox box = new JCheckBox();
// box.setBounds(40,250,20,20);

// f3.add(box);

public static void main(String [] z)

new tempCodeRunnerFile("Atharva Aditya");

}
}
```

Output:



