

quiz4.java

```
1 package quiz4;
2
3 import java.applet.Applet;
4 import java.awt.Button;
5 import java.awt.Font;
6 import java.awt.Label;
7 import java.awt.TextArea;
8 import java.awt.TextField;
9 import java.awt.event.ActionEvent;
10 import java.awt.event.ActionListener;
11
12 public class quiz4 extends Applet implements ActionListener{
13     // define components
14     Label
15         lblNum1 = new Label("Enter a number"),
16         lblNum2 = new Label("Enter another number"),
17         lblTitle = new Label("Press to show them");
18
19     TextField
20         txtNum1 = new TextField(),
21         txtNum2 = new TextField();
22
23
24     Button
25         btnSum = new Button("Sum"),
26         btnDiff = new Button("Difference"),
27         btnAvg = new Button("Average"),
28         btnMax = new Button("Max");
29
30     TextArea
31         txtaReport = new TextArea("",
32         0,0,TextArea.SCROLLBARS_BOTH);
33
34     public void init(){
35         setLayout(null);
36         int lblLeft = 25;
37         int top = 50;
38         int lblWidth = 200;
39         int height = 35;
40         int txtLeft = 225;
41         int txtWidth = 200;
42         int gap = 50;
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42         int btnWidth = 100;
43         int wGap = 120;
44
45         lblNum1.setBounds(lblLeft, top, lblWidth, height);
46         add(lblNum1);
47         txtNum1.setBounds(txtLeft, top, txtWidth, height);
48         add(txtNum1);
49         lblNum2.setBounds(lblLeft, top + gap, lblWidth, height);
50         add(lblNum2);
51         txtNum2.setBounds(txtLeft, top + gap, txtWidth, height);
52         add(txtNum2);
53
54         lblTitle.setFont(new Font("Serif", Font.ITALIC |
55         Font.BOLD, 20));
56         lblTitle.setBounds(150, top+2*gap, 300, 50);
57         add(lblTitle);
58
59         btnSum.setBounds(25, top + gap*3, btnWidth, height);
60         add(btnSum);
61         btnDiff.setBounds(25+wGap, top + gap*3, btnWidth, height);
62         add(btnDiff);
63         btnAvg.setBounds(25+2*wGap, top + gap*3, btnWidth,
64         height);
65         add(btnAvg);
66         btnMax.setBounds(25+3*wGap, top + gap*3, btnWidth,
67         height);
68         add(btnMax);
69         txtaReport.setBounds(lblLeft+25, top + gap*4,
70         400, 200 );
71         add(txtaReport);
72
73         btnSum.addActionListener(this);
74         btnDiff.addActionListener(this);
75         btnAvg.addActionListener(this);
76         btnMax.addActionListener(this);
77     }
78
79     @Override
80     public void actionPerformed(ActionEvent e) {
81         // TODO Auto-generated method stub
82         String num1, num2;
83         String line = new String();
84
85         // get the input content
86         num1 = txtNum1.getText();
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73         num2 = txtNum2.getText();
74         int n1 = Integer.parseInt(num1);
75         int n2 = Integer.parseInt(num2);
76
77
78         if(e.getSource() == btnSum){
79             line = "The sum of " + num1 + " and " + num2 + " is
80 " + (n1+n2);
81         }else if(e.getSource() == btnDiff){
82             line = "The Difference of " + num1 + " and " + num2
83 + " is " + (n1-n2);
84         }else if(e.getSource() == btnAvg){
85             line = "The Average of " + num1 + " and " + num2 + "
86 is " + (n1+n2)/2;
87         }else if(e.getSource() == btnMax){
88             int max = n1>n2?n1:n2;
89             line = "The Max of " + num1 + " and " + num2 + " is
90 " + max;
91         }
92
93         // put it in the text Area
94         txtaReport.append(line + "\n");
95
96         // Clear the input in the text field
97         txtNum1.setText("");
98         txtNum2.setText("");
99
100        // place the cursor in the name field
101        txtNum1.requestFocus();
102    }
103
104 }
105
```