**package** quiz4;

**import** java.applet.Applet;

**import** java.awt.Button;

**import** java.awt.Font;

**import** java.awt.Label;

**import** java.awt.TextArea;

**import** java.awt.TextField;

**import** java.awt.event.ActionEvent;

**import** java.awt.event.ActionListener;

**public** **class** quiz4 **extends** Applet **implements** ActionListener{

// define components

Label

lblNum1 = **new** Label("Enter a number"),

lblNum2 = **new** Label("Enter another number"),

lblTitle = **new** Label("Press to show them");

TextField

txtNum1 = **new** TextField(),

txtNum2 = **new** TextField();

Button

btnSum = **new** Button("Sum"),

btnDiff = **new** Button("Difference"),

btnAvg = **new** Button("Average"),

btnMax = **new** Button("Max");

TextArea

txtaReport = **new** TextArea("",0,0,TextArea.***SCROLLBARS\_BOTH***);

**public** **void** init(){

setLayout(**null**);

**int** lblLeft = 25;

**int** top = 50;

**int** lblWidth = 200;

**int** height = 35;

**int** txtLeft = 225;

**int** txtWidth = 200;

**int** gap = 50;

**int** btnWidth = 100;

**int** wGap = 120;

lblNum1.setBounds(lblLeft, top, lblWidth, height); add(lblNum1);

txtNum1.setBounds(txtLeft, top, txtWidth, height); add(txtNum1);

lblNum2.setBounds(lblLeft, top + gap, lblWidth, height); add(lblNum2);

txtNum2.setBounds(txtLeft, top + gap, txtWidth, height); add(txtNum2);

lblTitle.setFont(**new** Font("Serif", Font.***ITALIC*** | Font.***BOLD***, 20));

lblTitle.setBounds(150, top+2\*gap, 300, 50); add(lblTitle);

btnSum.setBounds(25, top + gap\*3,btnWidth, height); add(btnSum);

btnDiff.setBounds(25+wGap, top + gap\*3,btnWidth, height); add(btnDiff);

btnAvg.setBounds(25+2\*wGap, top + gap\*3,btnWidth, height); add(btnAvg);

btnMax.setBounds(25+3\*wGap, top + gap\*3,btnWidth, height); add(btnMax);

txtaReport.setBounds(lblLeft+25, top + gap\*4, 400,200 ); add(txtaReport);

btnSum.addActionListener(**this**);

btnDiff.addActionListener(**this**);

btnAvg.addActionListener(**this**);

btnMax.addActionListener(**this**);

}

@Override

**public** **void** actionPerformed(ActionEvent e) {

// **TODO** Auto-generated method stub

String num1, num2;

String line = **new** String();

// get the input content

num1 = txtNum1.getText();

num2 = txtNum2.getText();

**int** n1 = Integer.*parseInt*(num1);

**int** n2 = Integer.*parseInt*(num2);

**if**(e.getSource() == btnSum){

line = "The sum of " + num1 + " and " + num2 + " is " + (n1+n2);

}**else** **if**(e.getSource() == btnDiff){

line = "The Difference of " + num1 + " and " + num2 + " is " + (n1-n2);

}**else** **if**(e.getSource() == btnAvg){

line = "The Average of " + num1 + " and " + num2 + " is " + (n1+n2)/2;

}**else** **if**(e.getSource() == btnMax){

**int** max = n1>n2?n1:n2;

line = "The Max of " + num1 + " and " + num2 + " is " + max;

}

// put it in the text Area

txtaReport.append(line + "\n");

// Clear the input in the text field

txtNum1.setText("");

txtNum2.setText("");

// place the cursor in the name field

txtNum1.requestFocus();

}

}

output:

