import javax.swing.\*;

import java.awt.\*;

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

import java.applet.Applet;

public class Main extends JFrame implements ActionListener

{

JFrame f=new JFrame("Main");

int a=0,b=0,c,sum,diff,mul,e=0;

float div,z,y;

String div1;

JTextField t1=new JTextField();

JTextField t2=new JTextField();

JTextField t3=new JTextField();

JLabel l1=new JLabel("=");

JRadioButton r1 = new JRadioButton("+");

JRadioButton r2 = new JRadioButton("-");

JRadioButton r3 = new JRadioButton("\*");

JRadioButton r4 = new JRadioButton("/");

// Layout management of the frame starts here

public Main()

{

f.setLayout(null);

f.setVisible(true);

f.setSize(500,300);

t1.setBounds(50,100,100,20);f.add(t1);

t2.setBounds(200,100,100,20);f.add(t2);

t3.setBounds(340,100,100,20);f.add(t3);

t3.setEditable(false);

l1.setBounds(315,104,10,10);f.add(l1);

ButtonGroup r=new ButtonGroup();

r1.setBounds(160,62,40,20);r.add(r1);f.add(r1);

r2.setBounds(160,87,40,20);r.add(r2);f.add(r2);

r3.setBounds(160,112,40,20);r.add(r3);f.add(r3);

r4.setBounds(160,137,40,20);r.add(r4);f.add(r4);

r1.addActionListener(this);

r2.addActionListener(this);

r3.addActionListener(this);

r4.addActionListener(this);

}

//The main function

public static void main(String[] args)

{

new Main();

}

//Action listening starts from here

public void actionPerformed(ActionEvent ar)

{

//For the addition process

if(ar.getSource()==r1)

{

try

{

a=Integer.*parseInt*(t1.getText());

b=Integer.*parseInt*(t2.getText());

sum=a+b;

t3.setText(String.*valueOf*(sum));

}

catch(Exception ex)

{

JOptionPane.*showMessageDialog*(null,"Error! Only integers accepted. And, none of the first two text fields can be blank.");

}

}

//For the subtraction process

if(ar.getSource()==r2)

{

try

{

a=Integer.*parseInt*(t1.getText());

b=Integer.*parseInt*(t2.getText());

diff=a-b;

t3.setText(String.*valueOf*(diff));

}

catch(Exception ex)

{

JOptionPane.*showMessageDialog*(null,"Error! Only integers accepted. And, none of the first two text fields can be blank.");

}

}

//For the multiplication process

if(ar.getSource()==r3)

{

try

{

a=Integer.*parseInt*(t1.getText());

b=Integer.*parseInt*(t2.getText());

mul=a\*b;

t3.setText(String.*valueOf*(mul));

    }

catch(Exception ex)

{

JOptionPane.*showMessageDialog*(null,"Error! Only integers accepted. And, none of the first two text fields can be blank.");

}

}

//For the division process

if(ar.getSource()==r4)

{

try

{

y=Float.*parseFloat*(t1.getText());

    z=Float.*parseFloat*(t2.getText());

if(z==0)

{

JOptionPane.*showMessageDialog*(null,"Error! Second field can't be zero.");

return;

}

    div=y/z;

t3.setText(Float.*toString*(div));

}

catch(Exception ex)

{

JOptionPane.*showMessageDialog*(null,"Error! Only integers accepted. And, none of the first two text fields can be blank.");

}

}

}}