import java.awt.\*;

import java.awt.event.\*;

public class Calculator extends Frame implements ActionListener {

TextField t;

double num1, num2, res;

char op;

public Calculator() {

setTitle("CALCULATOR");

setSize(500, 400);

setLayout(new BorderLayout());

t = new TextField();

t.setEditable(false);

add(t, BorderLayout.NORTH);

Panel buttonPanel = new Panel(new GridLayout(5, 4));

String[] buttonLabels = {

"7", "8", "9", "/",

"4", "5", "6", "\*",

"1", "2", "4", "-",

"0", ".", "=", "+",

" ", "AC", " ", " ",

};

for (String label : buttonLabels) {

Button button = new Button(label);

button.addActionListener(this);

buttonPanel.add(button);

}

add(buttonPanel, BorderLayout.CENTER);

}

public void actionPerformed(ActionEvent ae) {

String str = ae.getActionCommand();

if (str.equals("+")) {

op = '+';

num1 = Double.parseDouble(t.getText());

t.setText("");

}

else if (str.equals("-")) {

op = '-';

num1 = Double.parseDouble(t.getText());

t.setText("");

}

else if (str.equals("\*")) {

op = '\*';

num1 = Double.parseDouble(t.getText());

t.setText("");

}

else if (str.equals("/")) {

op = '/';

num1 = Double.parseDouble(t.getText());

t.setText("");

}

else if (str.equals("=")) {

num2 = Double.parseDouble(t.getText());

switch (op) {

case '+':

res = num1 + num2;

break;

case '-':

res = num1 - num2;

break;

case '\*':

res = num1 \* num2;

break;

case '/':

res = num1 / num2;

break;

}

t.setText(res + "");

res = 0;

}

else if (str.equals("AC")) {

t.setText("");

num1 = num2 = res = 0;

}

else {

t.setText(t.getText() + str);

}

}

public static void main(String args[]) {

Calculator c = new Calculator();

c.setTitle("Calculator");

c.setSize(250, 300);

c.setVisible(true);

c.addWindowListener(new WindowAdapter() {

public void windowClosing(WindowEvent we) {

System.exit(0);

}

});

}

}