package javagui;

import java.awt.\*;

import java.awt.event.\*;

import javax.swing.\*;

public class TempConverter extends Frame implements ActionListener {

private Label label1;

private TextField inputField;

private Button toCelsiusButton, toFahrenheitButton, clearButton;

public TempConverter() {

setTitle("Temperature Converter");

setSize(350, 250);

setLayout(new GridLayout(3, 2, 10, 10));

label1 = new Label("Enter temperature (F/C):");

add(label1);

inputField = new TextField();

add(inputField);

toCelsiusButton = new Button("To Celsius");

toCelsiusButton.addActionListener(this);

add(toCelsiusButton);

toFahrenheitButton = new Button("To Fahrenheit");

toFahrenheitButton.addActionListener(this);

add(toFahrenheitButton);

clearButton = new Button("Clear");

clearButton.addActionListener(this);

add(clearButton);

addWindowListener(new WindowAdapter() {

public void windowClosing(WindowEvent e) {

System.exit(0);

}

});

}

public void actionPerformed(ActionEvent e) {

if (e.getSource() == toCelsiusButton) {

try {

double inputTemperature = Double.parseDouble(inputField.getText());

double convertedTemperature = (inputTemperature - 32) \* 5 / 9;

inputField.setText(String.format("%.2f Celsius", convertedTemperature));

} catch (NumberFormatException ex) {

inputField.setText("Invalid input");

}

} else if (e.getSource() == toFahrenheitButton) {

try {

double inputTemperature = Double.parseDouble(inputField.getText());

double convertedTemperature = inputTemperature \* 9 / 5 + 32;

inputField.setText(String.format("%.2f Fahrenheit", convertedTemperature));

} catch (NumberFormatException ex) {

inputField.setText("Invalid input");

}

} else if (e.getSource() == clearButton) {

inputField.setText("");

}

}

public static void main(String[] args) {

TempConverter frame = new TempConverter();

frame.setVisible(true);

}

}