1. Source Code

I make 3 clases test, Fline, temper

\*\*This is test class\*\*

**public** **class** test {

**public** **static** **void** main(String []args)

{

temper t = **new** temper();

}

}

import java.awt.BasicStroke;

import java.awt.Color;

import java.awt.Graphics;

import java.awt.Graphics2D;

import java.awt.geom.Line2D;

import javax.swing.JComponent;

\*\*This is Fline class\*\*

public class Fline extends JComponent {

public Line2D.Double line = new Line2D.Double(0,0,0,0);

private Color getC = new Color(255,255,255);

public Fline(int r)

{

line.setLine(0, 0, 0, 0);

getC = getC.blue;

}

public Fline(int r,int g)

{

line.setLine(0, 50, 0, 50);

getC = getC.red;

}

public void setC(int r, int g, int b)

{

getC = new Color(r,g,b);

}

public void paintComponent(Graphics g)

{

Graphics2D g2 = (Graphics2D) g;

g2.setColor(getC);

g2.setStroke(new BasicStroke(20));

g2.draw(line);

}

}

import java.awt.Color;

import java.awt.FlowLayout;

import java.awt.GridLayout;

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

import javax.swing.JButton;

import javax.swing.JFrame;

import javax.swing.JLabel;

import javax.swing.JPanel;

import javax.swing.JTextField;

\*\*This is temper class\*\*

public class temper {

private String C;

private String F;

public temper()

{

JFrame frame =new JFrame();

frame.setSize(500, 500);

frame.setDefaultCloseOperation(frame.EXIT\_ON\_CLOSE);

frame.setTitle("Temperature");

JTextField t1 = new JTextField(5);

JLabel l1 = new JLabel("Enter your temperature");

JLabel l2 = new JLabel("C temperature: ");

JLabel l3 = new JLabel("F temperatrue: ");

JLabel l4 = new JLabel("C: 0 20 40 60 80 100 ");

JLabel l5 = new JLabel("F: 32 68 104 140 176 212 ");

JButton b1 = new JButton("Convert to F");

JButton b2 = new JButton("Convert to C");

JPanel test1 = new JPanel();

JPanel p2 = new JPanel();

JPanel test2 = new JPanel();

Fline f1 = new Fline(1);

Fline f2 = new Fline(1);

Fline f3 = new Fline(1);

Fline f4 = new Fline(1);

f1.setC(100, 200, 0);

f2.setC(200, 100, 0);

f3.setC(0, 200,100);

f4.setC(0, 100, 100);

f3.line.setLine(0, 0, 100\*2, 0);

f4.line.setLine(0, 50, 200, 50);

//JPanel test = new JPanel();

frame.setLayout(new GridLayout(7,2));

// p2.setLayout(new GridLayout())

p2.add(l1);

p2.add(t1);

p2.add(b1);

p2.add(b2);

p2.add(l2);

p2.add(l3);

test1.add(f1);

test2.add(f2);

Color getC = new Color(0,255,0);

getC = getC.LIGHT\_GRAY;

Color get1 = new Color(255,255,0);

Color get2 = new Color(0,255,255);

test1.setBackground(get1);

test2.setBackground(get2);

frame.add(f1);

frame.add(l4);

frame.add(f3);

frame.add(f2);

frame.add(l5);

frame.add(f4);

p2.setBackground(getC);

frame.add(p2);

frame.setVisible(true);

b1.addActionListener(new ActionListener() {

@Override

public void actionPerformed(ActionEvent e) {

// TODO Auto-generated method stub

C = t1.getText();

double c = Double.parseDouble(C);

double f = (9.0/5.0)\*c + 32.0;

l2.setText("C temperature: "+c);

l3.setText("F temperatrue: "+f);

f1.line.setLine(0, 0, c\*2, 0);

f2.line.setLine(0, 50, f\*(200.0/212.0), 50);

f1.setSize(20, (int)c);

f2.setSize(20, (int)f);

frame.setVisible(true);

}

});

b2.addActionListener(new ActionListener() {

@Override

public void actionPerformed(ActionEvent e) {

// TODO Auto-generated method stub

F = t1.getText();

double f = Double.parseDouble(F);

double c = (5.0/9.0)\*(f-32.0);

l2.setText("C temperature: "+c);

l3.setText("F temperatrue: "+f);

f1.line.setLine(0, 0, c\*2, 0);

f2.line.setLine(0, 50, f\*(200/212.0), 50);

f1.setSize(20, (int)c);

f2.setSize(20, (int)f);

frame.setVisible(true);

}

});

frame.setVisible(true);

}

}`

1. Sample Screen Shot

