



K .J.Somaiya Polytechnic, Mumbai-77

Batch No: C2

Enrollment No.: FCOG19126

Experiment No: 13

Experiment Name: Program on Slider and Timers

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Objective

O18RA63.1. Create GUI using different swing & AWT components.

Implementation:

SliderT.java

```
import javax.swing.JSlider.*;
import javax.swing.*;
import javax.swing.event.*;
import java.awt.*;
import java.awt.event.*;

public class SliderT extends JFrame implements ChangeListener{
    final JTextField text ;
    final JSlider slider;
    public SliderT() {
        slider = new JSlider(JSlider.HORIZONTAL, 0, 50, 25);
        text = new JTextField(20);
        slider.setMinorTickSpacing(2);
        slider.setMajorTickSpacing(10);
        slider.setPaintTicks(true);
        slider.setPaintLabels(false);

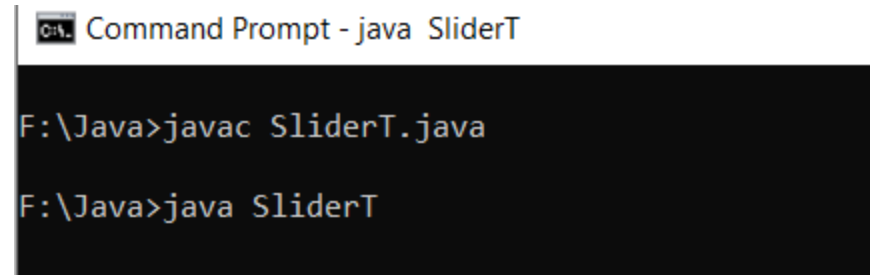
        JPanel panel=new JPanel();
        panel.add(slider);
        add(panel); panel.add(text);

        slider.addChangeListener(this);
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    }

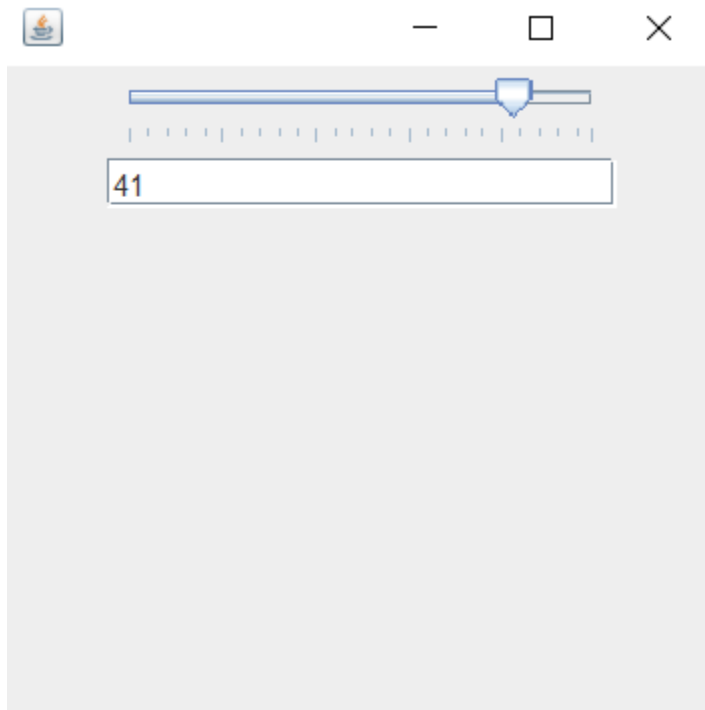
    public void stateChanged(ChangeEvent e) {
        text.setText(String.valueOf(slider.getValue()));
    }
}
```

```
public static void main(String s[]) {  
    SliderT f=new SliderT();  
    f.setSize(300,300);  
    f.setVisible(true);  
}  
}
```

Output:



```
Command Prompt - java SliderT  
  
F:\Java>javac SliderT.java  
  
F:\Java>java SliderT
```



TimerT.java

```
import javax.swing.*;
import java.awt.*;
import java.awt.event.*;

class TimerT extends JFrame implements ActionListener{
    int start = 0;
    JButton jbtn;
    Timer swingtimer;
    JFrame f;
    TimerT(int tm)
    {
        start =start+tm;
        f=new JFrame();
        f.setLayout(null);
        jbtn = new JButton("Staring Timer...");
        jbtn.setBounds(100,100,250,250);
        f.add(jbtn);

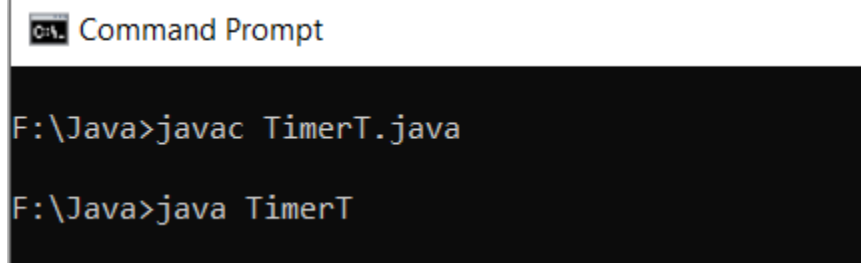
        swingtimer = new Timer(2222,this);
        swingtimer.start();
        f.setSize(700,350);
        f.setVisible(true);
        f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    }

    public void actionPerformed(ActionEvent evnt)
    {
        if(start>=1)
        {
```

```
jbtn.setText("Time : "+start); //changing the label of button as the timer decreases
}
else{
jbtn.setText("Timeout... Now,CloseT");
swingtimer.stop();
}
start--;
}

public static void main(String[] args) {
TimerT tw = new TimerT(6);
}
}
```

Output:



The screenshot shows a Windows Command Prompt window with the title "Command Prompt". The command prompt is open at the directory "F:\Java". The user has entered the command "javac TimerT.java" to compile the Java source file, and then "java TimerT" to run the compiled class. The output of the program is not visible in the screenshot.

```
Command Prompt
F:\Java>javac TimerT.java
F:\Java>java TimerT
```



Conclusion- Thus, we have implemented program on slider and timers.