



K .J.Somaiya Polytechnic, Mumbai-77

Batch No: C1

Enrollment No.: FCOW19118

Experiment No: 13

Experiment Name: Program on Slider and Timers

Experiment No.13

Experiment Name : Program on Slider and Timers

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);

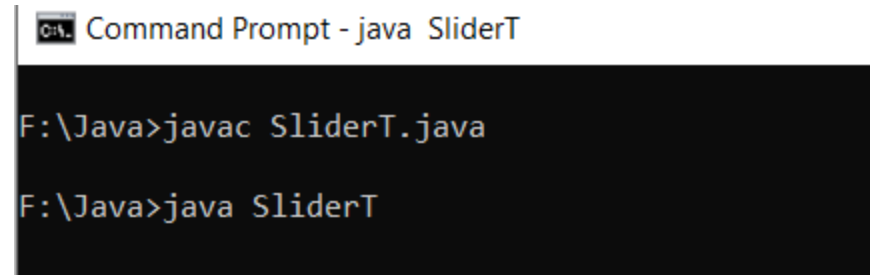
        JPanel panel=new JPanel();
        panel.add(slider);
        add(panel); panel.add(text);

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

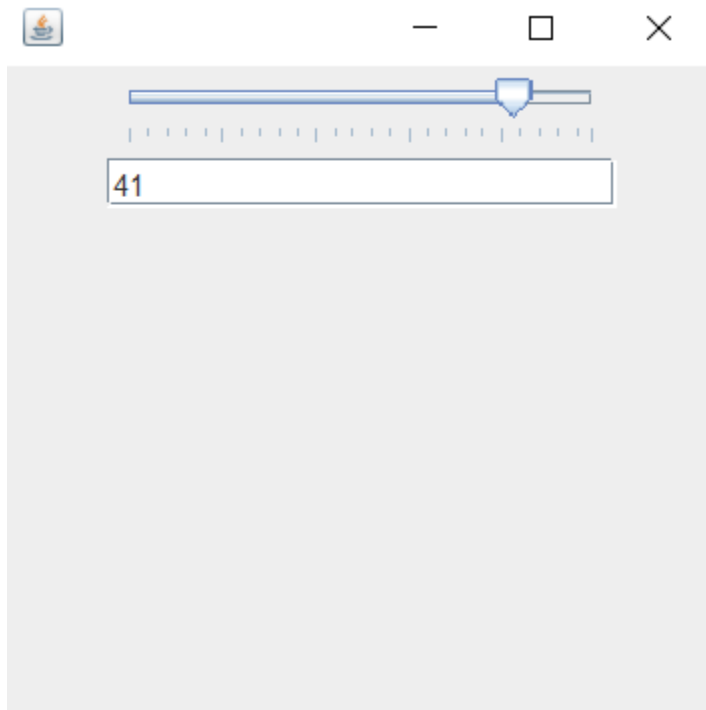
    public void stateChanged(ChangeEvent e) {
        text.setText(String.valueOf(slider.getValue()));
    }
}
```

```
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);

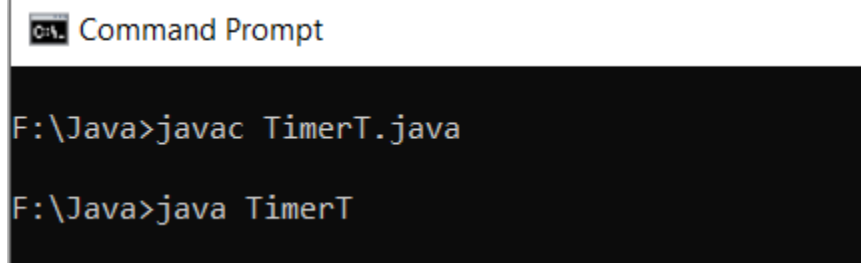
        swingtimer = new Timer(2222,this);
        swingtimer.start();
        f.setSize(700,350);
        f.setVisible(true);
        f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    }

    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 titled "Command Prompt". The prompt is at the directory "F:\Java". The user has entered the command "javac TimerT.java" to compile the program, and then "java TimerT" to run it. The output of the program is not visible in this screenshot.

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



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