K. J. Somaiya Polytechnic, Mumbai-77

Batch No: C1

Enrollment No.: FCOW19118

Experiment No: 04

Experiment Name: Write a program to delegate adjustment event to a scrollbar.

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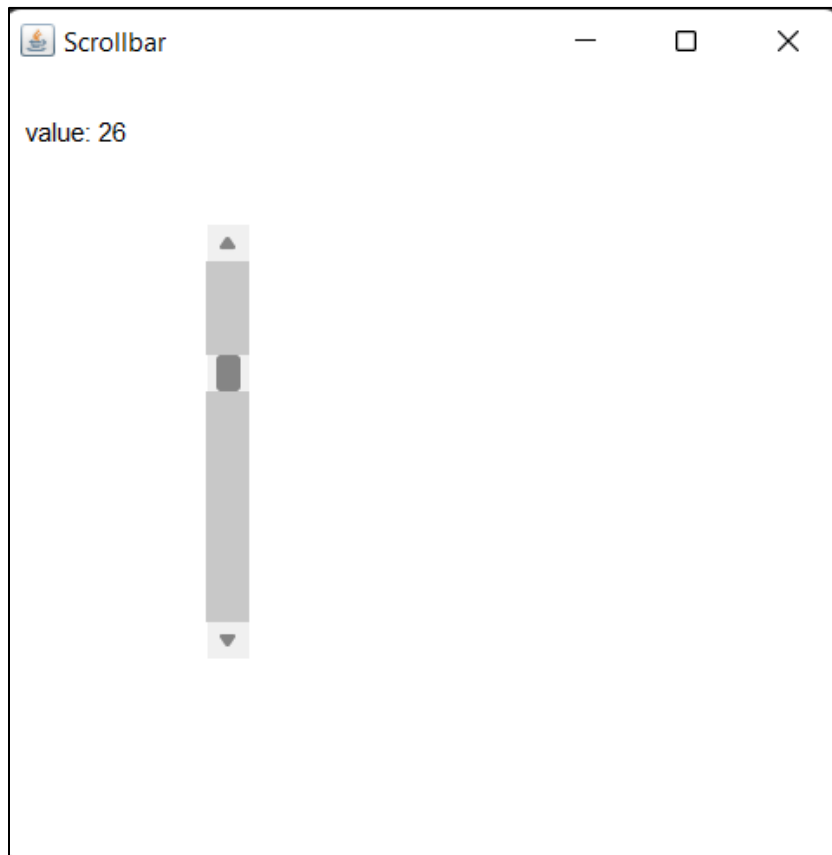Experiment Name: Write a program to delegate adjustment event to a scrollbar

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

Implementation:

```java
import java.awt.event.*;
import java.awt.*;
class ScrollbarDemo implements AdjustmentListener{
    Frame f = new Frame("Scrollbar");
    Label l;
    Scrollbar s;
    ScrollbarDemo(){
        l = new Label();
        l.setBounds(15,15,85,85);
        s = new Scrollbar();
        s.setBounds(100,100,20,200);
        f.add(s); f.add(l);
        f.setSize(400,400);
        f.setLayout(null);
        f.setVisible(true);
        f.addWindowListener(new WindowAdapter() {
            @Override
            public void windowClosing(WindowEvent e) {
                f.dispose();
            }
        });
        s.addAdjustmentListener(this);
    }
    public void adjustmentValueChanged(AdjustmentEvent ae){
        l.setText("value: "+ae.getValue());
    }
    public static void main(String[] args)throws InterruptedException{
        ScrollbarDemo se = new ScrollbarDemo();
    }
}
```

Output:

Conclusion- Thus we have written a program to delegate adjustment event to a scrollbar.