

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

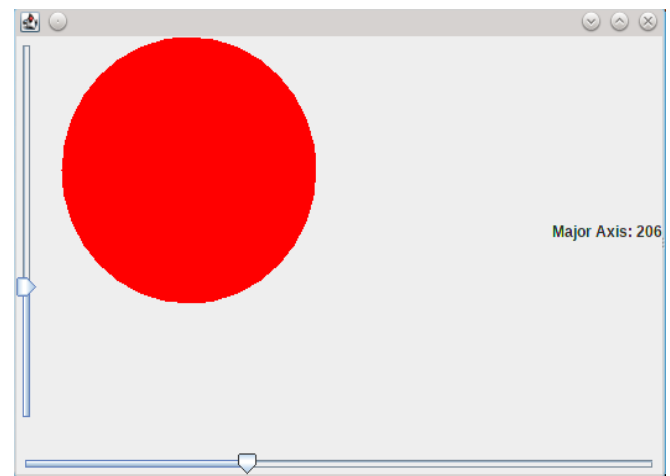
```
class myIcon implements Icon{
    private int width;
    private int height;
    private Color myColor;
    public myIcon(int aWidth, int aHeight, Color c)
    {
        width = aWidth;
        height=aHeight;
        myColor = c;
    }

    public int getIconWidth()
    {
        return width;
    }
    public int getIconHeight()
    {
        return height;
    }
    public void setIconWidth(int w){
        width=w;
    }
    public void setIconHeight(int h){
        height=h;
    }

    public void paintIcon(Component c, Graphics g, int x, int y){
        Graphics2D g2 = (Graphics2D) g;
        Ellipse2D.Double myC = new Ellipse2D.Double(0,0, width, height);
        g2.setColor(myColor);
        g2.fill(myC);
    }
}

public class TwoSliders
{
    private static final int FRAME_WIDTH = 600;
    private static final int FRAME_HEIGHT = 600;

    private static final int MIN_ICON_SIZE = 100;
    private static final int MAX_ICON_SIZE = 400;
    private static myIcon icon1;
    private static JLabel label1;
    private static JSlider horizontalSlider;
    private static JSlider verticalSlider;
```



```

private static JLabel textDisplay;

public static void main(String[] args)
{
    JFrame frame = new JFrame();
    frame.setSize(FRAME_WIDTH, FRAME_HEIGHT);
    frame.setLayout(new BorderLayout(20,20));

    horizontalSlider = new JSlider(MIN_ICON_SIZE, MAX_ICON_SIZE,200);
    horizontalSlider.addChangeListener(new ChangeListener(){
        public void stateChanged(ChangeEvent event) {
            icon1.setIconWidth(horizontalSlider.getValue());
            verticalSlider.setValue(horizontalSlider.getValue());
            textDisplay.setText("Major Axis: "
+Integer.toString(horizontalSlider.getValue()));
            label1.repaint();
        }
    });

    verticalSlider = new JSlider(SwingConstants.VERTICAL, MIN_ICON_SIZE,
MAX_ICON_SIZE,200);
    verticalSlider.addChangeListener(new ChangeListener(){
        public void stateChanged(ChangeEvent event) {
            icon1.setIconHeight(verticalSlider.getValue());
            horizontalSlider.setValue(verticalSlider.getValue());
            label1.repaint();
        }
    });

    icon1 = new myIcon(FRAME_WIDTH,FRAME_HEIGHT, new Color(1.0f, 0.0f, 0.0f));
    label1 = new JLabel(icon1);
    textDisplay=new JLabel("Major Axis: " +Integer.toString(horizontalSlider.getValue()));

    frame.add(horizontalSlider,BorderLayout.SOUTH);
    frame.add(verticalSlider,BorderLayout.WEST);
    frame.add(label1,BorderLayout.CENTER);
    frame.add(textDisplay,BorderLayout.EAST);

    frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    frame.pack();
    icon1.setIconWidth(horizontalSlider.getValue());
    icon1.setIconHeight(verticalSlider.getValue());
    frame.setVisible(true);
}
}

```