Selected files

2 printable files

Question_3\a\LoopLines.java
Question_3\a\LoopLinesTest.java

Question_3\a\LoopLines.java

```
1
    import javax.swing.JPanel;
2
    import java.awt.Graphics;
3
4
   public class LoopLines extends JPanel {
5
6
        @Override
7
        protected void paintComponent(Graphics g) {
8
            super.paintComponent(g);
9
10
            int width = getWidth();
            int height = getHeight();
11
            int steps = 15; // Number of steps
12
13
            int stepWidth = width / steps;
14
15
            int stepHeight = height / steps;
16
17
            int x2 = 0; // Initialize the x-coordinate of the second endpoint
18
19
            for (int i = 0; i < steps; i++) {</pre>
                int y2 = height - (i * stepHeight); // Calculate the y-coordinate of the second
20
    endpoint
21
22
                g.drawLine(0, 0, x2, y2); // Draw line from (0,0) to (x2,y2)
23
                x2 += stepWidth; // Move to the right one step
24
25
            }
26
        }
27
    }
28
```

Question_3\a\LoopLinesTest.java

```
1
    import javax.swing.JFrame;
2
3
   public class LoopLinesTest {
4
        public static void main(String[] args) {
5
6
            //create a panel that contains our drawing
7
            LoopLines panel = new LoopLines();
8
9
            //create a new frame to hold the panel
10
            JFrame application = new JFrame();
11
            //set the frame to exit when it is closed
12
13
            application.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
14
            application.add(panel); //add the panel to the frame
15
            application.setSize(300, 300);
16
            application.setVisible(true);
17
18
```

19 } 20 |