Selected files

2 printable files

Question_5\b)\CircularSpiral.java
Question_5\b)\CircularSpiralTest.java

Question_5\b)\CircularSpiral.java

```java
import javax.swing.JPanel;
import java.awt.Graphics;

public class CircularSpiral extends JPanel {

    public void paintComponent(Graphics g) {
        int x = getSize().width / 2 - 10;
        int y = getSize().height/ 2 - 10;
        int width = 20;
        int height = 20;
        int startAngle = 0;
        int arcAngle = 180;
        int depth = 10;
        for (int i = 0; i < 10; i++) {
            if (i % 2 == 0) {
                //   g.drawArc(x + 10, y + 10, width, height, startAngle + 10, -arcAngle);
                //  x = x - 5;
                y = y - depth;
                width = width + 2 * depth;
                height = height + 2 * depth;
                g.drawArc(x, y, width, height, startAngle, -arcAngle);
            } else {
                //  g.drawArc(x + 10, y + 10, width, height, startAngle + 10, arcAngle);
                x = x - 2 * depth;
                y = y - depth;
                width = width + 2 * depth;
                height = height + 2 * depth;
                g.drawArc(x, y, width, height, startAngle, arcAngle);
            }
        }
    }
}
```

Question_5\b)\CircularSpiralTest.java

```java
import javax.swing.JFrame;

public class CircularSpiralTest {
    public static void main(String[] args) {

        //create a panel that contains our drawing
        CircularSpiral Circularpanel = new CircularSpiral();

        //create a new frame to hold the panel
        JFrame application = new JFrame();

        //set the frame to exit when it is closed
        application.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

        application.add(Circularpanel); //add the panel to the frame
```

```
        application.setSize(400, 400);
        application.setVisible(true);
    }
}

```