Sahil A. Nawab – Recursion Exercises

DisappearingSquare.java

```
package Recursion;

import java.applet.Applet;
import java.awt.Color;
import java.awt.Graphics;

public class DisappearingSquare extends Applet {

	public void paint(Graphics g) {
		int defaultWidth = 1000; int defaultHeight = 650;
		setSize(defaultWidth, defaultHeight);

		drawSquare(0, 200, g);
		drawSquareRight(1000, 200, g);
	} // end paint method

	public void drawSquare(int xPos, int length, Graphics g) {
		if (length >= 2) {
			g.setColor(genRandColor());
			g.fillRect(xPos, 200 - length, length, length);

			drawSquare(xPos + length + 10, (int) (length * 0.75), g);
		}
	} // end method drawSquare

	public void drawSquareRight(int xPos, int length, Graphics g) {
		if (length >= 2) {
			g.setColor(genRandColor());
			g.fillRect(xPos, 450, length, length);

			drawSquareRight(xPos - length - 10, (int) (length * 0.75),
g);
		}
	} // end method drawSquareRight

	public Color genRandColor() {
		int randRed = (int) (Math.random() * 256),
			randGreen = (int) (Math.random() * 256),
			randBlue = (int) (Math.random() * 256);

		return new Color(randRed, randGreen, randBlue);
	} // end method genRandColor

} // end class DisappearingSquare
```