

```
import java.applet.Applet;
import java.awt.Color;
import java.awt.Graphics;
import java.util.Random;

public class Star extends Applet{
    public void paint(Graphics g) {
        Random rand = new Random();

        for(int i = 0; i<10; i++) {
            int radius = rand.nextInt(50);
            int CenterX = rand.nextInt(500);

            int CenterY = rand.nextInt(500);

            int[] xPoints = new int [10];
            int[] yPoints = new int [10];

            int count = 0;
            for (int j = 0; j <5; j++)
            {
                xPoints[count] += Math.cos(((2*Math.PI) / 5)*j) * radius + CenterX;
                yPoints[count] += Math.sin(((2*Math.PI) / 5)*j) * radius +CenterY;

                count++;

                xPoints[count] += Math.cos(((2*Math.PI) / 5) * (j + 0.5)) * 2 * radius + CenterX;
                yPoints[count] += Math.sin(((2*Math.PI) / 5) * (j + 0.5)) * 2 * radius + CenterY;

                count ++;
            }
            g.setColor(Color.BLUE);
            g.fillPolygon(xPoints, yPoints, 10);
        }
    }
}
```