Gaire Ananta Prasad M24W0272

Sierpinski Gasket Java code

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| SimplintGrankeLipus 3.U x |
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```
# SierpinskiGasketjava 3.U X
# SierpinskiGasket  

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# public class SierpinskiGasket  

# private void tri(Graphics2D g, double x, double y, double 1) {

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# private void tri(Graphics2D g, double x, double y, double 1) {

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# private points of the triangle out  

# private point (alculate the midpoint between two points  

# private point calculate  

# private point calculate the midpoint pi, Point p2 out  

# private point calculate  

# private point calculate  

# private float map(float value, float start1, float stop1, float start2, float stop2) {

# private float map(float value, float start1, float stop1, float start2, float stop2) {

# private float map(float value, float start1) / (stop1 - start1));

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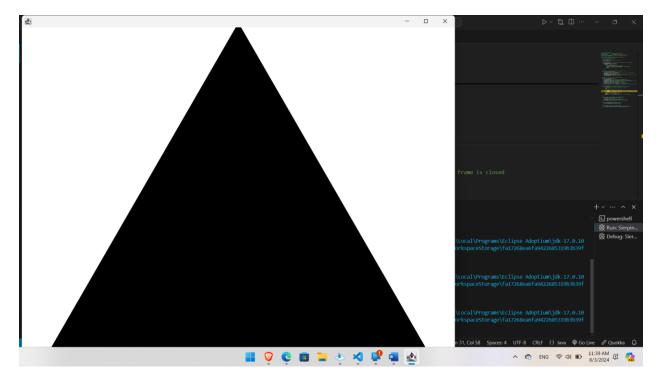
# private float map(float value, float start1) / (stop1 - start1));

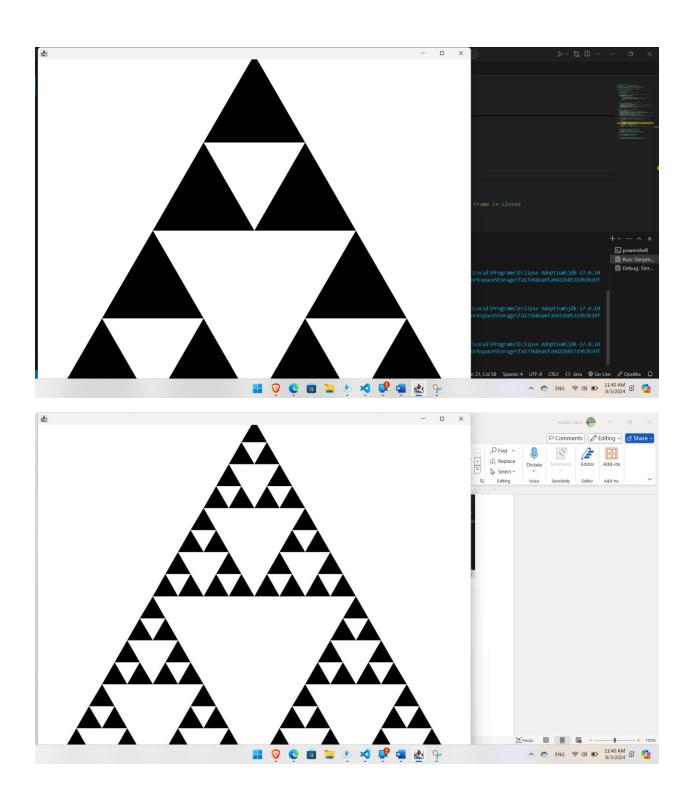
# private float map(float value, float start1) / (stop1 - start1));

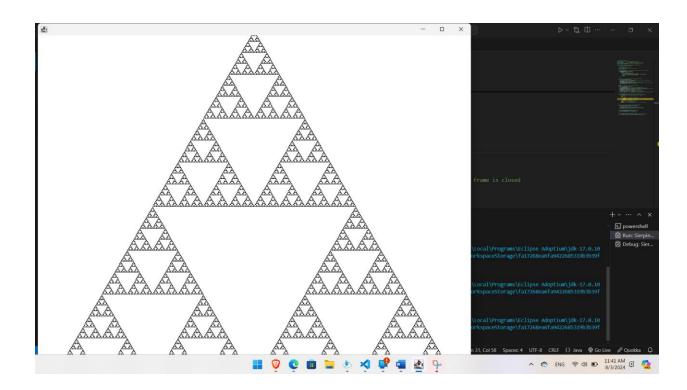
# private float map(float value, float start1) / (stop1 - start1);

# private float map(float value, float start1) / (stop
```

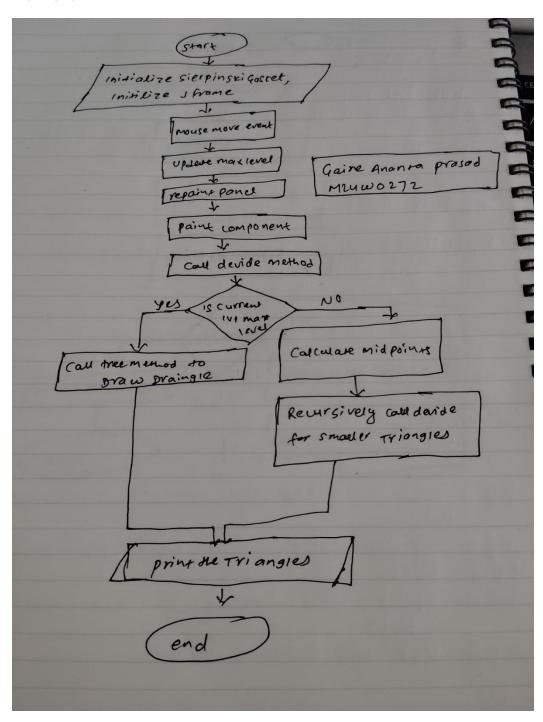
Output







Flow-Chart



Pseudocode

```
| StephnikiGasketJava 3.U | StephnikiGasketJava 1.U | StephnikiGasketJava 1. | //Gairre Amanta Prasad (MOAMBOZZ), I am writing this detailed pseudocode in text editor because it is too large to write in copy. | CLASS SierpinskiGasket EXTENDS Javanel | CLASS SierpinskiGasket EXTENDS Javanel | CLASS SierpinskiGasket EXTENDS Javanel | CLASS SierpinskiGasket () | CLASS SierpinskiGasket () | CONSTRUCTOR SierpinskiGasket () | MOD MOUSEPORTOR () () | MOD MOUS
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// Recursive divide method

// Recursive divide(g: Graphics2D, x: double, y: double, l: double, lvl: int, max: int)

// Liftyl = max THRN

// CALL tri(g, x, y, 1)

// DECLAME midpoint AS Point INITIALIZED TO calculateMidpoint(new Point((int)(x, (int)y), new Point((int)(x + 1 / 2), (int)y))

DECLAME midpoint AS Point INITIALIZED TO calculateMidpoint(new Point((int)(x + 1), (int)y), new Point((int)(x + 1), (int)y))

DECLAME midpoint AS Point INITIALIZED TO calculateMidpoint(new Point((int)(x + 1), (int)y), new Point((int)(x + 1), (int)y))

CALL divide(g, x, y, 1 / 2, lvl + 1, max)

CALL divide(g, x, y, 1 / 2, lvl + 1, max)

CALL divide(g, x + 1 / 4, y, - Math.sin(Math.PI / 3) * 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 / 2, 1 /
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