CO225
Class Diagram
E/16/388

JPanel

JFrame

class Panel extends JPanel

private static final long serialVersionUID

private int max

private String type

public Panel(String type)

public Panel(int max, String type)

public void paintComponent(Graphics g)
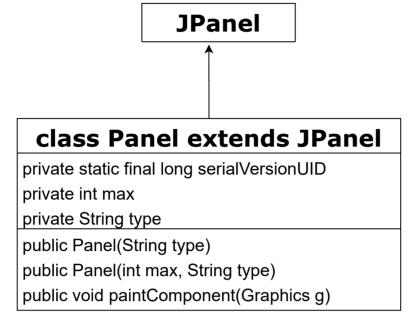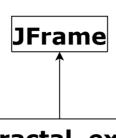
public class Fractal extends JFrame

private static final long serialVersionUID

private final int WIDTH

protected static int colorValue[][] = new int[800][800];

protected int start, end, runTime;

protected int max;

public static void main(String args[])

public void drawJulia(int max)

public void drawMandelbrot()

public void drawMandelbrot(int max)

public boolean absoluteValue(double real, double imaginary)

public void threadRun(Thread t1, Thread t2, Thread t3, Thread t4)

public void threadJoin(Thread t1, Thread t2, Thread t3, Thread t4)

class Julia extends Fractal implements Runnable

private final double R2 ,R1 , Z2 , Z1

private double cReal, cImaginary

private static final long serialVersionUID

Julia(int start, int end, int runTime)

Julia(double cReal, double cImaginary, int start, int end, int runTime)

Julia(double cReal, double cImaginary, int max , int start, int end, int runTime)

public static int[][] getCordinates()

public void run()

class Mandelbrot extends Fractal implements Runnable

private double r2 ,r1 , z2 , z1

private static final long serialVersionUID

Mandelbrot(int start ,int end, int runTime)

Mandelbrot(double r1 ,double z1 ,double r2 ,double z2 ,int start ,int end, int runTime)

Mandelbrot(double r1 ,double z1 ,double r2 ,double z2 ,int max ,int start ,int end, int runTime)

public static int[][] getCordinates()

public void run()