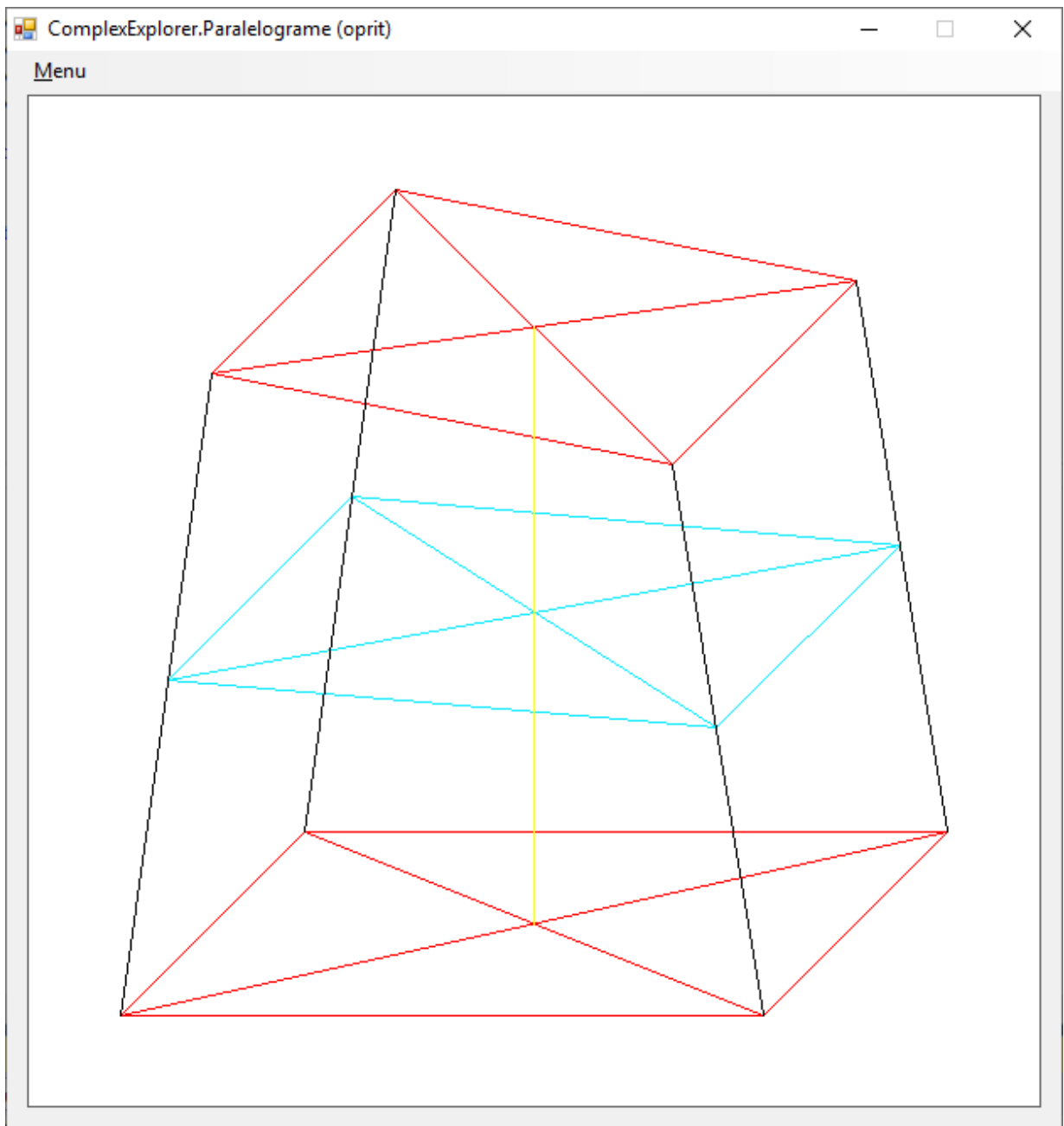


Curs 13  
(plan de curs)

1 ½ oră Mulțimi Julia

½ oră: Paralelograme:



```

public class Paralelograme : ComplexForm
{
    Complex i = Complex.setReIm(0, 1);
    void traseaza(Complex a, Complex b, Complex c, Complex d, Color col)
    {
        setLine(a, b, col);
        setLine(b, c, col);
        setLine(c, d, col);
        setLine(d, a, col);
        setLine(a, c, col);
        setLine(b, d, col);
    }

    public override void makeImage()
    {
        setXminXmaxYminYmax(0, 11, 0, 11);
        ScreenColor = Color.White;
        Complex a1 = 1 + i, b1 = 8 + i, c1 = 10 + 3 * i;
        Complex d1 = a1 + c1 - b1;
        Complex q1 = (a1 + c1) / 2;

        Complex a2 = 2 + 8 * i, b2 = 7 + 7 * i, c2 = 9 + 9 * i;
        Complex d2 = a2 + c2 - b2;
        Complex q2 = (a2 + c2) / 2;

        double theta = Math.PI / 1000;
        for (int k = 0; ; k++)
        {
            double alfa1 = Math.Sin(k * theta);
            alfa1 *= alfa1;
            double alfa2 = 1 - alfa1;
            Complex a = alfa1 * a1 + alfa2 * a2;
            Complex b = alfa1 * b1 + alfa2 * b2;
            Complex c = alfa1 * c1 + alfa2 * c2;
            Complex d = alfa1 * d1 + alfa2 * d2;

            initScreen();
            traseaza(a1, b1, c1, d1, Color.Red);
            traseaza(a2, b2, c2, d2, Color.Red);
            traseaza(a, b, c, d, getColor(k));
            setLine(a1, a2, PenColor);
            setLine(b1, b2, PenColor);
            setLine(c1, c2, PenColor);
            setLine(d1, d2, PenColor);
            setLine(q1, q2, Color.Yellow);

            if (!resetScreen()) return;
        }
    }
}

```