Main

package Program02;

public class Main {

    public static void main(String[] args) {

        RegularPolygon polygon1 = new RegularPolygon();

        RegularPolygon polygon2 = new RegularPolygon(6,4);

        RegularPolygon polygon3 = new RegularPolygon(10,4,5.6,7.8);

        System.out.println("---Polygon1---");

        polygon1.display();

        System.out.println("---Polygon2---");

        polygon2.display();

        System.out.println("---Polygon3---");

        polygon3.display();

    }

}

RegularPolygon

package Program02;

public class RegularPolygon {

    private int n ;

    private double side ;

    private double x;

    private double y;

    public RegularPolygon(){

        this(3, 1);//reuse the second constructor

    }

    public RegularPolygon(int n , double side){

        this.n = n;

        this.side = side;

    }

    public RegularPolygon(int n , double side ,double x,double y){

        this.n = n;

        this.side = side;

        this.x = x;

        this.y = y;

    }

    public int getN() {

        return n;

    }

    public double getSide() {

        return side;

    }

    public double getX() {

        return x;

    }

    public double getY() {

        return y;

    }

    public void setN(int n) {

        this.n = n;

    }

    public void setSide(double side) {

        this.side = side;

    }

    public void setX(double x) {

        this.x = x;

    }

    public void setY(double y) {

        this.y = y;

    }

    public double getPerimeter(){

        double perimeter = n\*side;

        return perimeter;

    }

    public double getArea(){

        double area = (n\*Math.pow(side, 2)/(4\*Math.tan(Math.PI/n)));

        return area;

    }

    public void display(){

        System.out.println("Number of side : " + getN());

        System.out.println("Side lenght : " + getSide());

        System.out.println("X-Coordinate : " + getX());

        System.out.println("Y-Coordinate : " + getY());

        System.out.println("Perimeter : "+ getPerimeter());

        System.out.println("Area : "+ getArea());

    }

}