ClassDiagram
POLYGON AREA CALCULATOR
GROUP 39

ExtraFunctions

getLength

lineMidPointsX : int Array
lineMidPointsY : int Array
#lengths : double Array
#diaonal1 : double
#diagonal2 : double

calculateLength()
+ getLength()
+getXMid()
+getYMid()

getAngles

–angles : double Array
–crossProducts : boolean Array

–calculateAngles()
+getCrossProduct()
+getAngle()
+changePoint()
+changePoint(int x,int y,int i)

getPoints

xPoints : Int array
yPoints : Int array
area : double

calculateArea()
+setXs()
+getX()
+getXs()
+getArea()

GUI

Plot

–polygon : getAngles
–vertices : Rectangle Array
–poly : Polygon
–verticeSize : int
–currentVertexIndex : int
+c1 : Color
– polygonWidth : float
+reset : JButton
+GOBack : JButton
+areaLabel : JButton
+t : JTextField

+Plot()
#paintComponent()
–getVertexIndex()
+mouseMoved()
+mouseDragged()

calls

calls

Start

–next : JButton

+Start()
+main()