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CS 2852 - 021

Lab 2: Connect the Dots Generator

- Driver

    o Extends JFrame

    o The driver is used for creating the GUI

        ▪ It gives functionality to the buttons so on click they reference the methods in the ReadFile class

- ReadFile

    o Extends WinPlotter

    o This is where all of the File reading and Plotting is

        ▪ Is called by the Driver for the File read method and all of the Plotting methods

        ▪ Calls the Dots class for x and y coordinates used in plotting

        ▪ Calculation methods are used to assit the plotting methods

- Dots

    o Used to make referencing x and y coordinate locations easier for the plotting methods in the ReadFile

        ▪ Has two get methods

            - One for the x coordinate and the other for the y coordinate

oberholtzerkn::ReadFile
-points = new ArrayList<Dot>(): List<Dot> -result = new ArrayList<Dot>(): List<Dot>
+ReadFile(): ctor +getDesiredDots(List<Dot> original, List<Dot> result, int numDesired): void +read(File file): int +plotBoth(int numPoints): void +plotDots(int numPoints): void +plotLines(int numPoints): void +calculateDistance(Dot one, Dot two): double +calcPoints(Dot one, Dot two, Dot three): double +rangeCheck(int numPoints): Boolean

oberholtzerkn::Driver
-points: int -file: File ~newFile = new ReadFile(): ReadFile
+Driver(): ctor +init(): void +main(String[] args): void

oberholtzerkn::Dot
-x, y: double
+Dot(double x, double y): ctor +getX(): double +getY(): double