## Computer Graphics Assignment #1 Wireframe Viewer Line Drawing

Part 1 of the first assignment is to draw lines using Bresenham's algorithm. To test the algorithm's correctness, as a sanity check, one should draw lines in all directions. One way to do so is to draw lines from a point to many points on a circles centered around the points. Set the center point to be some  $(x_0, y_0)$  in the screen space. Then, in a loop, draw a line to  $(x_0 + r \sin \frac{2\pi i}{a}, y_0 + r \cos \frac{2\pi i}{a})$  for a certain choice of radius r and step size a.

For this part please create a folder named 'Assignment1Report', and inside it place a mark-down file named 'Assignment1Report\_part1.md' (without the ') that will contain your report. In the report, you should display the following:

- 1. Your implementation of the algorithm.
- 2. A picture of the sanity check results
- 3. A drawing of you own choice. Try to be creative!