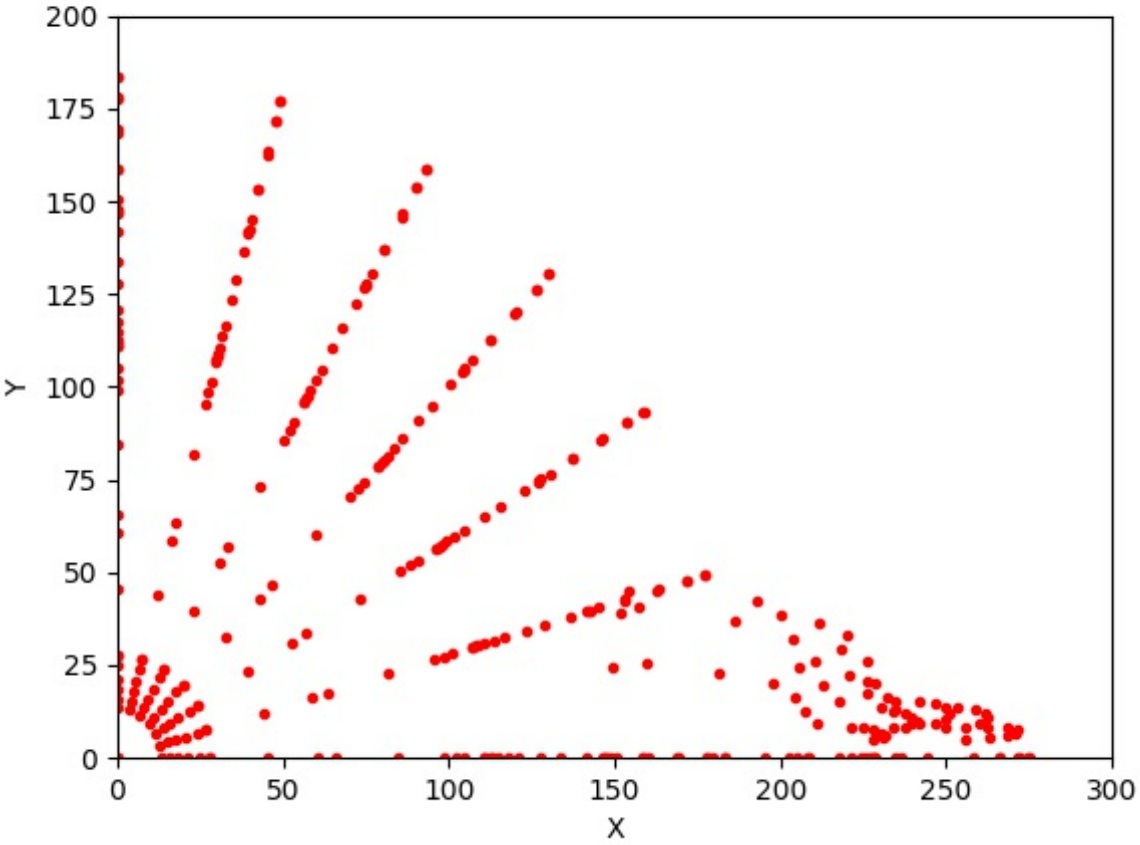
CA4007 - Assignment 1

Objective One

Please explain why the entire object is not visible? Note that, only the pixels with positive coordinates are visible.

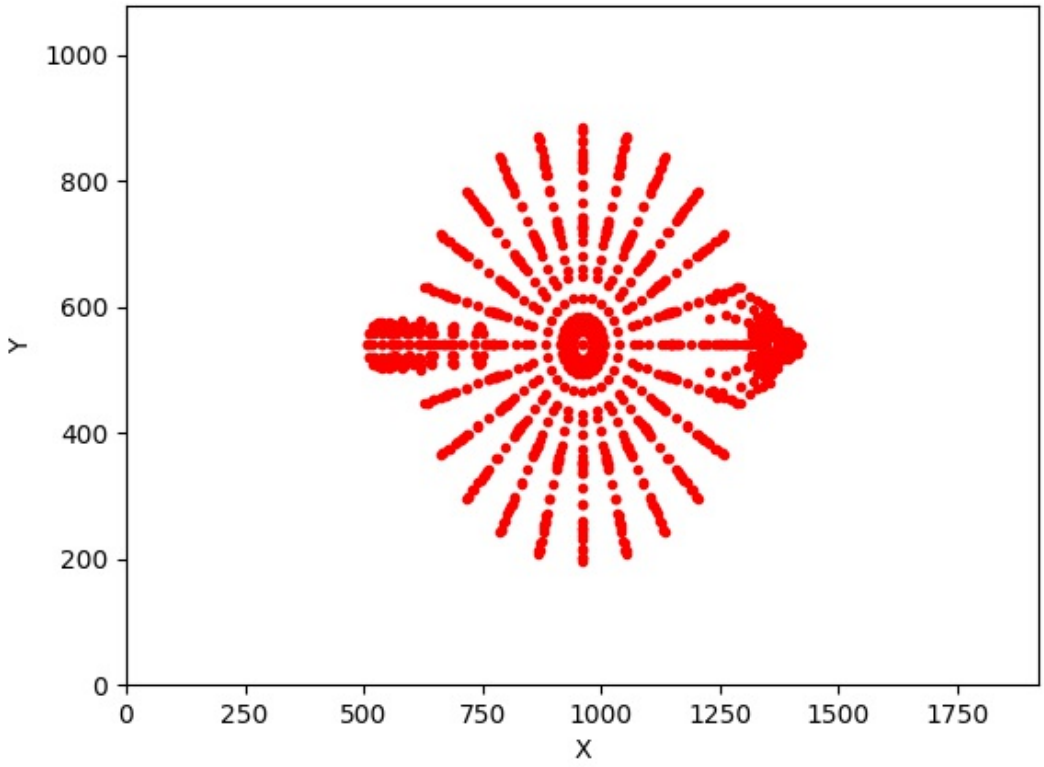
The entire object is not visible for multiple reasons:

- The positive quadrant is only visible as I have limited the x and y axes to begin at (0, 0) as that was what was shown in Figure 1 of the assignment spec.
- The resulting image is 2D graph rather than a 3D point cloud so the entire image is not able to be visualised.
- The camera positioning is at z=10 and the teapot's original height is roughly 3 so the bottom of the teapot is not visible.



Objective Two

- Edited cx, cy to 960, 540 per spec resolution 1920x1080.
- Changed camera positioning to [0, 0, 5] to show a closer view of the teapot.


1000
800
600
400
200
0
Y
0
250
500
750
1000
1250
1500
1750
X