

Computer Vision: Assignment -1

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Link to GitHub repo (all Solutions and videos):

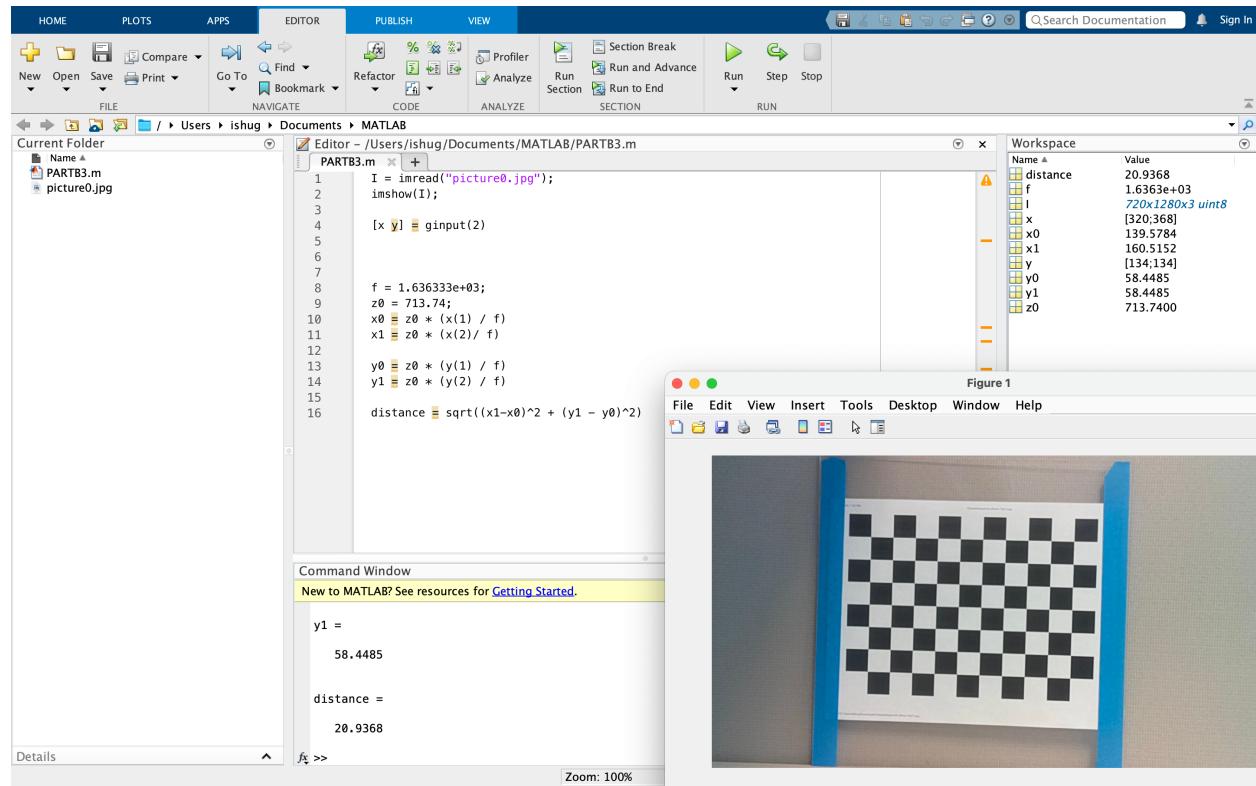
<https://github.com/ishu98goyal/Computer-Vision-CSC8830/tree/main/Assignment%201>

Part A

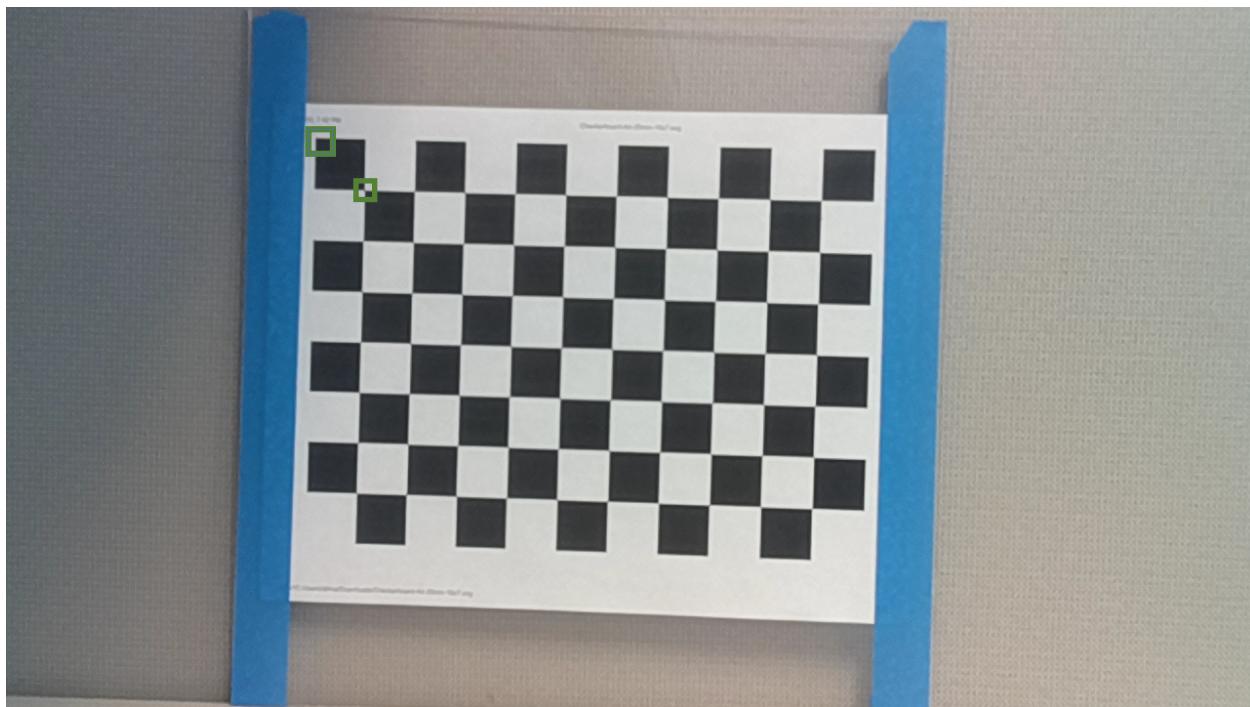
Check Homography.ipynb

PART B

Q3



The image below was used for the experiment. The distance was measured between the points squared green.



Output:

X

320

368

y

134

134

x0=139.5784

x1=160.5151

y0=58.4485

y1=58.4485

distance=20.9368

Part C

5. Yes, it is feasible. The maximum resolution achievable is 13 megapixels (Resolution: 4208x3120 pixels) for the color camera, and 480p (Resolution: 640x480) for the Stereo pair. The maximum frame rate achievable is 60 fps for the color camera and 200 fps for the Stereo Pair.

