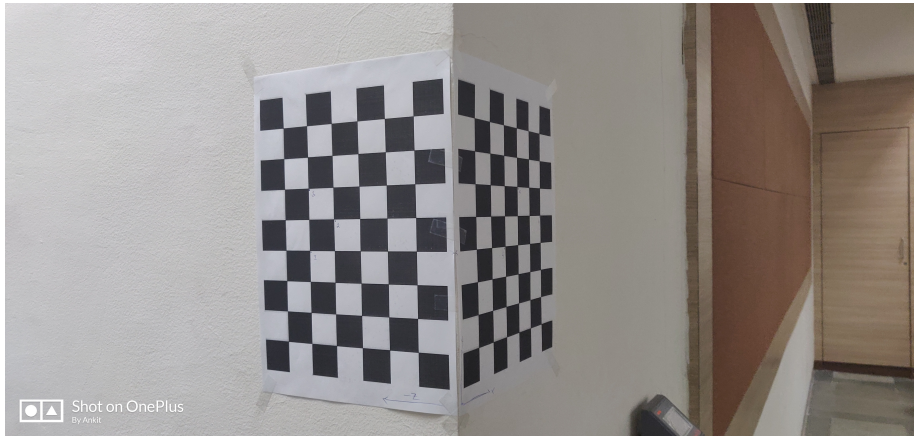# Q1

February 8, 2019

RMSE = 0.4290

Here I have used 3 points on one Checker-box and the other three on second checker-box. SO they are not in a single plane.

RMSE without Normlisation = 2.43035e+03

As we clearly see, that without normalization, the RMSE value is very big. Normalization is a good idea before performing DLT to decrease the condition number of matrix M formed by 12 data-points. As our data is slightly noisy. Without normalization, the data from source would can have two orders of magnitude larger variance than from target (or vice versa).As computation in machine is based on iterative solution, and this depend upon condition number. So it is a good idea to Normalize this data points before performing DLT.

Image.jpg is also saved in input of Q1 folder.