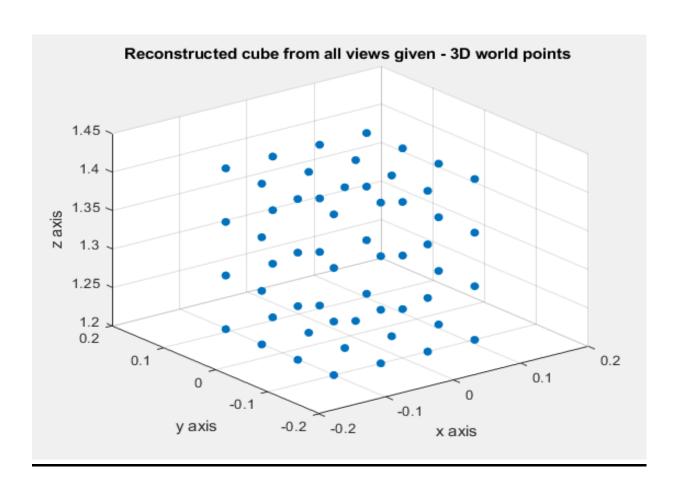
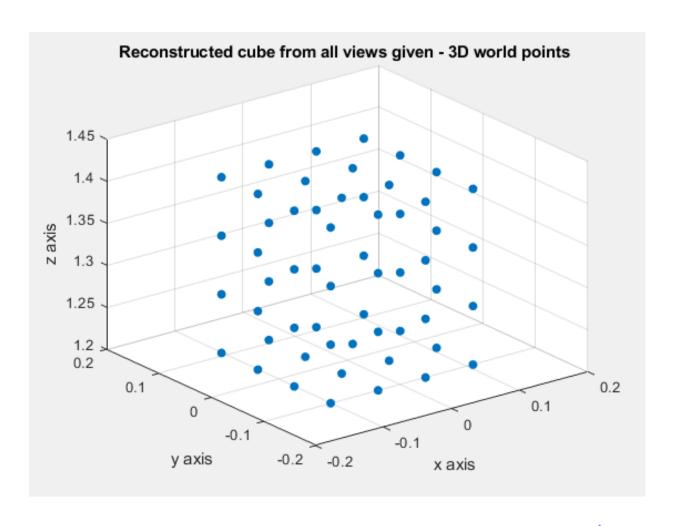
## MOBILE ROBOTICS ASSIGNMENT-4

SATHYASRAVYA.V 20161121

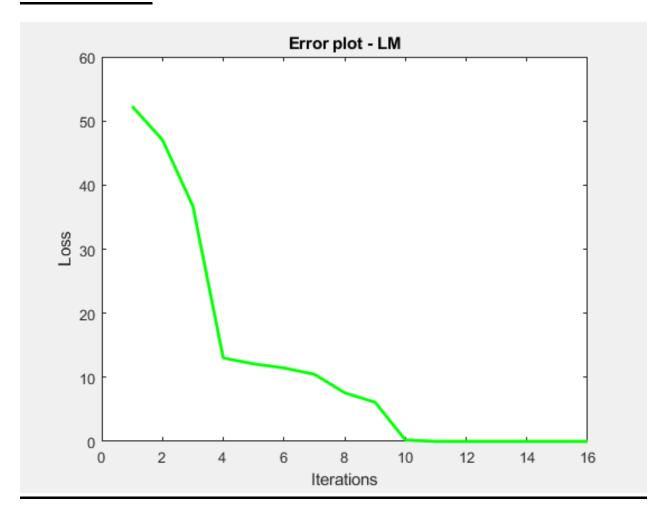
## Section -1

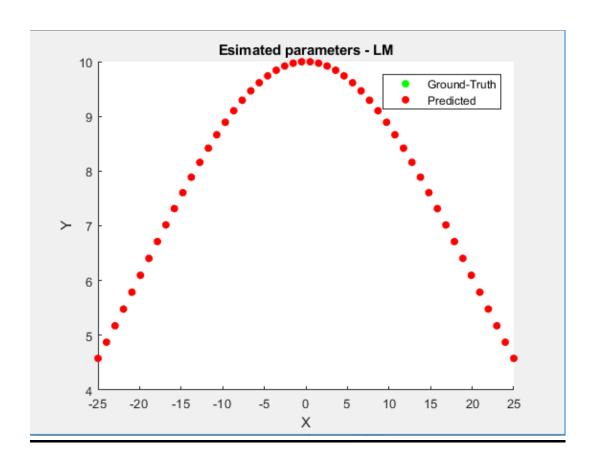




- In this part, I appended two rows corresponding to the x and y coordinates of the image points, for 8 projection matrices known.
- Thus, we have an equation of the form,
  - $\circ$  AX= 0; where , A is a (16\*4) matrix.
  - X is a (4\*1) matrix;
- Using SVD ,I solved the above equations for all 56 points, obtained corresponding world points and plotted them.(Thus we obtain reconstructed cube)

## Section-2





```
Number of total iterations: 50
Number of successful steps: 15
Number of unsuccessful steps: 7
Estimated parameters of the Gaussian:

ans =

10.0000 -0.0000 20.0000

True parameters of the Gaussian:

ans =

10 0 20

Difference in estimated and true parameters:

ans =

9.9598e-17
```