

The resultant is placed below as asked in post lab description in lab document.

```
[Uest, Sest ,Vest] = svd(MA'*MA);
lambda = Vest(:,end);
```

and last colomn of the V vector is associated with smallest eigenvalue of MTM.

The last thing we need to do form a reconstructed coordinates by created 19x4 matrix. 4 is coming from x, y z coordinates with 1 due to homogeneity. Of course we cannot find the scaled version of original object. The mean squared error is basically, calculated as 0.56789877, by centralized their means and re-scaling their optimum values.