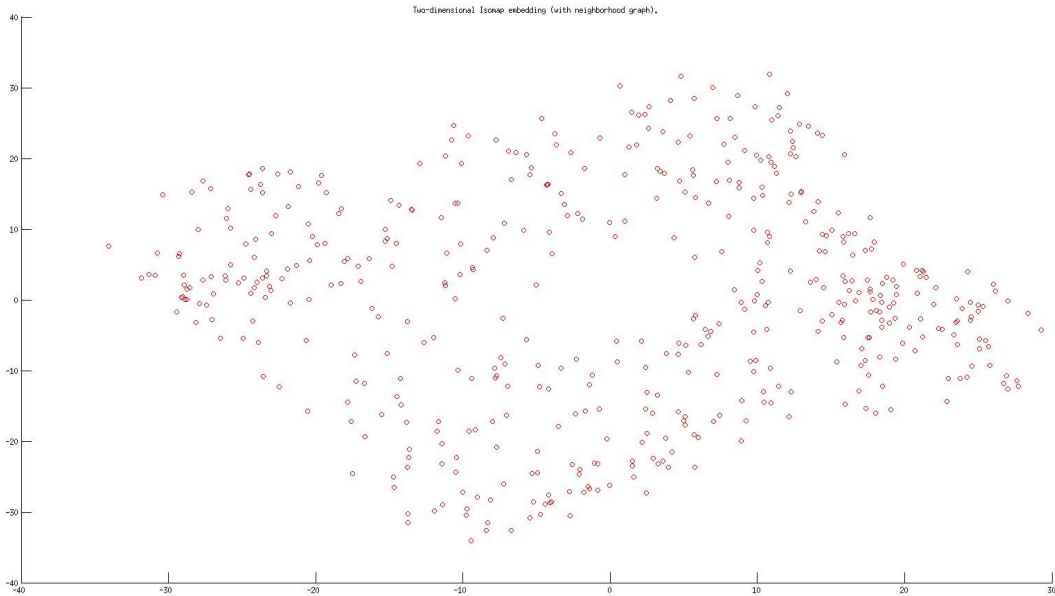


# Assignment-2

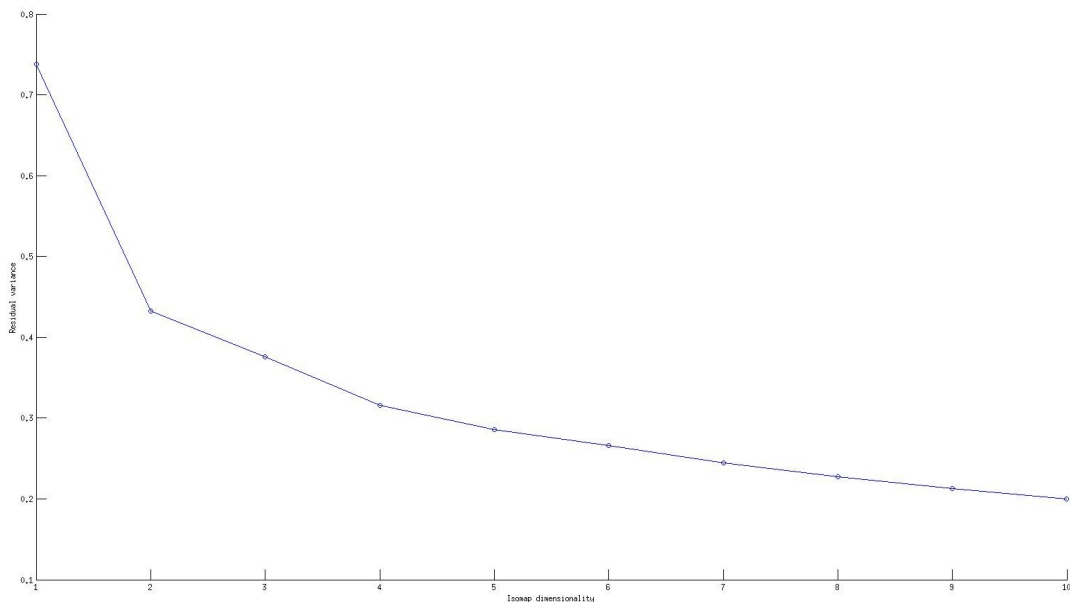
## Part B

### Q2( 2 arm robot (Euclidean Metric Distance))

#### Isomap of 500 images of 2 arm robot



#### Residual Variance



The dimensionality predicted by the curve is roughly 4 which is correct as the state of robots can be completely determined by 4 variables  $\theta_1, \theta_2$  (state variable for left arm) and  $\theta_3, \theta_4$  (state variables for right arm) which are independent and sufficient