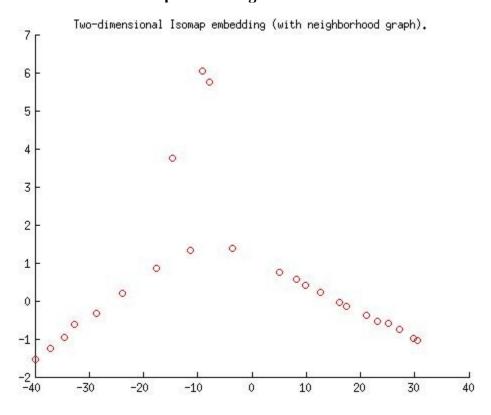
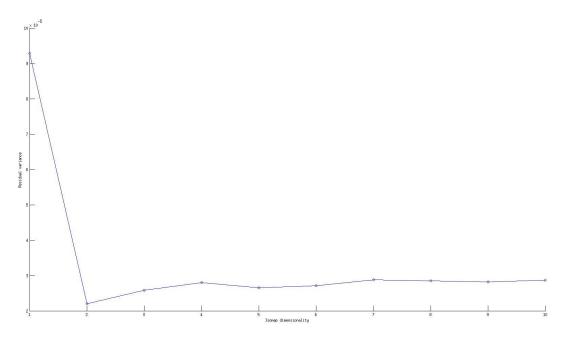
Assignment-2 Part B

Q1(Nao Robot(Euclidean Metric Distance**))**

Isomap of 200 images of nao Robot



Residual Varience



The dimentionality depicted from the variance curve is 2 which is correct as the Nao robot in the pictures is moving only his hand and also in the same plane. The position of his hand is uniquely determined by the angle of shoulder(theta1) and angle of hand wrt to arm(theta2).

theta1 and theta2 uniquely determine the robot motion => dimentinality=2(as predicted by isomap)