Assignment-2
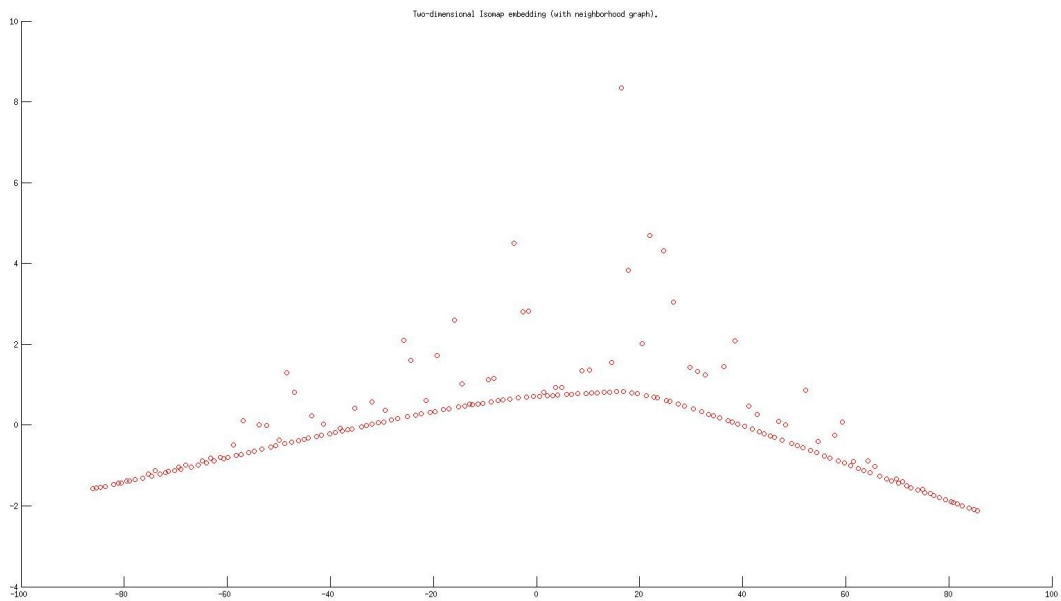## Part B
Q4(Box moving Robot(Euclidean Metric Distance))

Isomap of 200 images of Box moving Robot

Two-dimensional Isomap embedding (with neighborhood graph).

Residual Variance
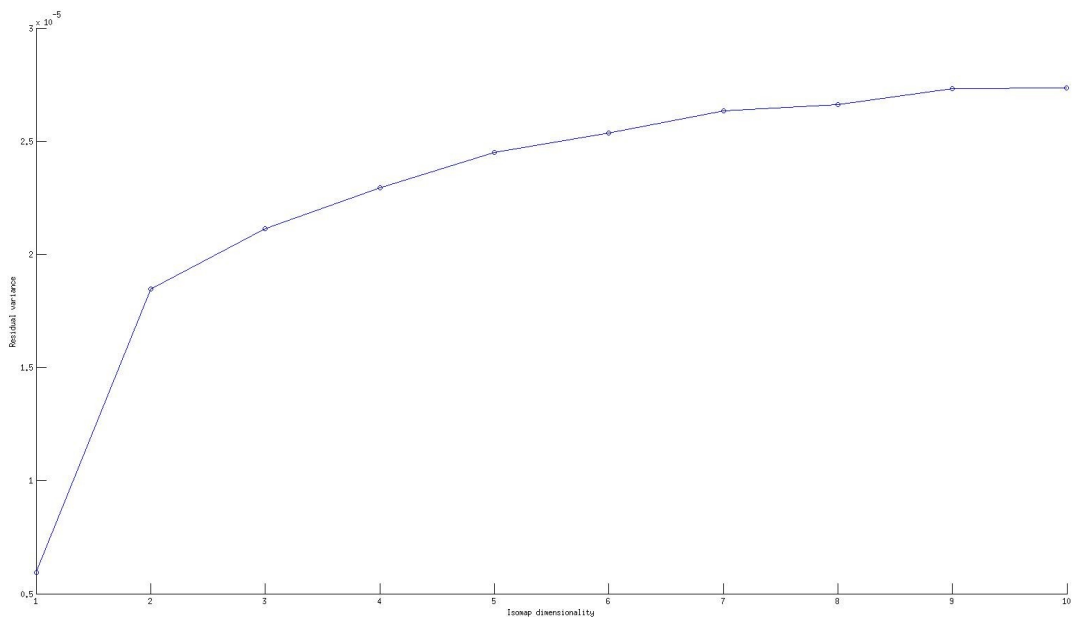
The dimentionality Predicted by this curve is 1 which is correct as the State of Robot is Uniquely detemined by the x co-ordinate of the Box(the only independent parameter) as we saw in B3 for a fixed position of Box there are fixed theta1,theta2,theta3,theta4 .

In B2 the dimentionality was 4 as there were no constraints on robot arm motions and all theta1,theta2,theta3,theta4 were independent parameters.