Assignment 2: Lucas Kanade Tracker

Problem Statement:

To implemented Lucas-Kanade with help of Gauss Newton method to track a point on an object in a video.

Result:

Observations:

1.From implementation,what I observe is that longer the time taken for convergence greater is the extent of moving point.
2.If the threshold is increased to a greater value in order to decrease the time convergence, then the result is not satisfactory.So there was a need to search for balance between these two.
3.Initially the extent of shift is less and gradually increases as seen from the sequence of above images.
4.The direction of tracking is correct in my implementation but the point moves faster than the required speed.