**Conclusion: -**

In the end, we applied Newmark Beta Method to the beam structure and get the displacement, velocity and acceleration for the different method as discussed in the results and discussion. So by comparing these method for damping (zeta = 0.02) and without damping (zeta = 0) structure we conclude that the results of both seems approximate same for all method of Newmark Method. In all method we found that as length of time steps increase the result of displacement, velocity and acceleration are going to be accurate. In this analysis for Linear Acceleration Method and Fox-Godwin Method, the time step (dt) is taken 0.000001 s to get better accuracy in place of 0.0001 which we use for other methods. With comparison of the graph of all damped and undamped, we found that the displacement is quite similar (which is 0.003589 for damped and 0.0040 for undamped) for all method whereas the velocity and acceleration is varying method by method significantly.