MODELING AND SIMULATION LAB

1.Simulate exponential decay using MS EXCEL?

I = I₀

where I is the intensity at time t, I₀ is the initial intensity at time t=0 and τ is lifetime

2.Simulate any one of the random number test -

2.1 Chi square test

2.2 kolmogorov - smirnov test

3. Generate random no by -

3.1 Mid square method

3.2 Linear cogruential method {Residue method}

4.Simulate monte carlo simulation

5.simulation of single server queuing system

NOTE- Only 1st simulation should be done in excel where as rest of the simulations can be simulate in any IDE.