INDIAN INSTITUTE OF TECHNOLOGY, KHARAGPUR DEPARTMENT OF MATHEMATICS MA39110-ANT_LAB ASSIGNMENT -06

1.Write a MATLAB code for solving the following BVP with step length h=0.05 by using spline interpolation technique. Also compare the result with exact solution and plot the resultant solution.

$$y''-y=x$$
. $,y(0)=0,y(1)=2$

2.Use Spline interpolation technique for solving the following BVP with step size h=0.2. Compare the result with the exact solution .Also plot the resultant solution.

$$y(0)=1,y(1)=0$$