CLL:113-Tut-6 (25.11.20)

- Q1. Generate eight equally spaced points from the function $f(t) = \sin^2 t$ from t = 0 to 2π . Fit this data with
- (a) A Lagrangian Polynomial
- (b) A Newton's Divided Difference Formula
- (c) A seventh-order interpolating polynomial

Plot $\sin^2 t$ as well as the interpolation functions (a), (b) and (c) for $t = [0, 0.1, 0.2,, 2\pi]$ and compare the quality of the fit obtained for each of the parts in a report.

Submission file should contain -

- 1. Code (.C/.CPP)
- 2. Report (in pdf format)