ENG202: Numerical Methods for Engineering
Lab. Assignment 4 (A4)
Week 13 (6 April. – 11 Apr.), Spring 2020

Note:

- Each student has to implement **all** exercises specified in the manual.
- Create a folder using the nomenclature: A4*_yourname_yourID.*
- Create a new file in the folder for each programming exercise and name it as Exercise*X*, where *X* denotes the exercise number.
- Include screenshots of the output for each exercise in the folder to be submitted.
- Zip your folder and upload it to your Moodle account before the end of the lab session.
- Any queries during the lab hours should be discussed only with the Instructor/T.A.s.
- Each implementation should be done individually. Sharing your code (in entirety or partially) will be considered as plagiarism.

***Exercise 1*:**

(a) Develop and test a program in either a high-level language or macro language of your choice to implement Newton's interpolating polynomial based on the pseudocode given on page 500 of your main textbook.

(b) Use the program you developed in part (a) to solve Problems 18.1, 18.2, and 18.3 given on page 524 of your main textbook.