

ELEN 3381      Assignment #10

Due date:    Shown on the Blackboard.

Use your student ID as first 8 data points, then append following 12 data points (making the total data points to be 20).

Data points to append: 3 0 1 4 6 5 3 5 4 3 2 1.

For example, if your student ID is L23456789, then

$x = 1:20;$

$y = [2\ 3\ 4\ 5\ 6\ 7\ 8\ 9\ 3\ 0\ 1\ 4\ 6\ 5\ 3\ 5\ 4\ 3\ 2\ 1];$

Find polynomial fit line of degrees 1, 2, 3, 4, and 5 for your number. Plot the data as well as the polynomial fit lines (5 of them).

Please submit:

1. MATLAB code. (5 pts)
2. MATLAB plot screenshot. (5 pts)