In this lab, you will create a demo for Newton’s method graphically. Specifically, you need to create a video of how Newton’s method progresses with iterations. You can see an example at Example\_2.avi file.

Every step and command to use is mentioned in comments in the code template Lab2\_NewtonMethod.m file.

The polynomial function is given by

* The polynomial and its derivative should be hardcoded in the files poly.m and poly\_derivative.m.
* You can load the polynomial using f = @poly. Value of the function at any value, say 0, can be found using f(0).
* You can load the derivative using fder =@poly\_derivative.
* Value of the derivative at any value, say -1, can be found using fder(-1)

Test your code (demo) with different initial points.

Note: You are not limited to use same mentioned commands.