# CS302HW1

Home Work 1 code for CS302

Completed

Made code improvements (optimizations) like pre-allocations, getting rid for unnecessary for loops. This is the best code in the history of all codes ever.

Converted to functions and made a hierarchy as mentioned in HW. LsystemDriverA ->Lsystem -> Iterate/Draw.

Creating header for each function and each file.

Make color as a parameter so we can have lightning as blue, branches as brown and leaves as green without internal modification.

Set background for lightning as black.

Save each figure made with names as title.

Reproduce Weed-1 fractal in figure 6.5.

Reproduce square spike fractal shown in figure 6.9.

Produce a lightning bolt fractal.

LsystemDriverA.m is non-interactive.