

Program_07_1

Requirements

Since we're going to be creating numerous plots throughout this week, it would be a good idea to give our carpal tunnels a break and, of course, avoid copying and pasting a little. Create a function named **labelPlot** with the following requirements.

The function shall:

- Accept up to five arguments as shown in the function header below
- Require the first three arguments
- Allow a fourth argument (zLabel) to be optional, if provided, add a zlabel to the active plot
- Allow a fifth argument (gridOn) to be optional, if not provided, it should default to **off**

Program

There is no "script" portion of this assignment, merely running the tests and having a successful outcome will satisfy the requirements for this assignment.

Use the following code to help with defining your function. **NOTE: you will need to create the function in an M file, do not create it here.**

----- Copy code for starting function -----

```
function labelPlot(titleText, xLabel, yLabel, zLabel, gridOn)
% LABELPLOT Adds a title, x and y axis labels, and gridlines to a plot.
%
% This function will only apply the aforementioned properties to the
% currently active plot, so be sure to activate the plot prior to running
% this function.
%
% Inputs:
%   titleText    : a string for the title of the graph.
%   xLabel       : a string for the x axis label of the graph.
%   yLabel       : a string for the y axis label of the graph.
%   zLabel       : an optional string for the z axis label of the graph.
%   gridOn       : an optional boolean to turn the grid on or off,
%                  if omitted, the grid will be off
%
% Outputs:
%   There are no outputs.
%
% See also TITLE, XLABEL, YLABEL, ZLABEL
```

----- End copy code for starting function -----

Example Output

The test results output should appear as follows to indicate success.

There is no output, the function will be used extensively throughout the homework so enough manual testing will be done to confirm the function performs as expected.