LAB3

Basic MATLAB Commands

MATLAB provides several functions for plotting and visualizing data. Here are some commonly used plotting functions and their features:

- · plot(x, y, 'color'): This function plots the data in vectors x and y with the specified color. For example, plot(x, y, 'r') plots the data with a red color. Other color options include b (blue), g (green), k (black), m (magenta), c (cyan), and y (yellow).
- · stem(x, y, 'color'): This function plots discrete data as vertical lines at each point with the specified color. For example, stem(x, y, 'r') plots the data with a red color.
- · subplot(m, n, p): This function divides the figure window into an m-by-n grid of subplots and activates the p-th subplot for plotting. For example, subplot(2, 2, 1) creates a 2-by-2 grid of subplots and activates the top-left subplot for plotting.
- · hold on: This function allows multiple plots to be displayed in the same figure window. Subsequent plots will be added to the same figure instead of replacing the previous plot.