

**Ex:**

Write a script file that does the following:

- i) Creates an array called DC_data containing the following data pts:

x values:	0.0	1.0	1.5	2.5
y values:	0.6	1.9	1.5	1.0

- ii) Plots the data pts as blue dots on an x-y plot.
iii) Set the range of x values to -1 to 3 and the range of y values from 0 to 2.
iv) Uses polyfit() to find a constant (zeroth order) fit for the data points in DC_data.
v) Show the constant line on the plot as a red line.

SOL'N: i) `x_values = [0, 1, 1.5, 2.5];`
`y_values = [0.6, 1.9, 1.5, 1.0];`
`DC_data = [x_values; y_values];`

ii) `plot(x_values, y_values, 'b.')`
iii) `axis([-1,3,0,2])`
iv) `a = polyfit(x_values, y_values, 0);`
v) `y_fit = a * ones(1,length(x_values));`
`hold on`
`plot(x_values, y_fit, 'r-')`
`hold off`