```
1 % Sounak Ghosh
2 % 9/28/19
3 % ECE 202 - Fall 2019 - MATLAB Exercise M4
4 % (c) Normalized Gaussian
5
6 clear % clears all variables in the workplace; avoids common errors
7 clc % clears all previous outputs in the command window(s)
10 x = linspace(0, 10, 500);
                                                          % -5 to 5s, needed for plot
11 P = 1/(2*pi^{(1/2)}) * exp(-(x-5).^{2/4});
                                                         % function for Normalized 
Gaussian
12 plot(x, P, '--');
                                                               % plot of time vs. Pr
(t), with a red line
13 title('ECE 202, Exercise M4, part (c): Normalized Gaussian', 'Fontsize', 24) % ✓
Plot title with 24 font
14 xlabel('distance x (m)', 'Fontsize', 18);
                                                          % x axis label
15 ylabel('P(x)', 'Fontsize', 18);
                                                          % y axis label
```