EE495 Programming Problem 00-01

AKA: The "Please use the designated programming format" Assignment

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The purpose of this programming problem is to encourage you to learn how to use the Matlab publish functionality of the jupyter notebook functionality to follow the programming assignment format.

```
        This will be formatted as a block of monospace text
```

In [42]:
```python
# In Matlab there is a blank line after the above text and before this comment.
# The blank line signifies that the subsequent text should be formatted as
# usual code comments and not as paragraph text.
# python users should comment out the following Matlab code
# x = 0:10;
#
# figure();
# plot(x);
# xlabel('x');
# ylabel('x');
# title('A really silly plot');
# disp(['The max value of x is: ',num2str(max(x))]);
#
# In jupyter notebook, this is typed into a Code cell (the default cell type)
# but also available from the dropdown menu at the top of the browser.
# Matlab users should comment out the following python code.
import numpy as np # this would probably go in its own cell
import matplotlib.pyplot as plt # ditto
x = np.arange(0,11)
plt.figure()
plt.plot(x)
plt.xlabel('x')
plt.ylabel('x')
plt.title('A really silly plot')
plt.show()
print('The max value of x is: '+str(x.max()))
3
```

A really silly plot
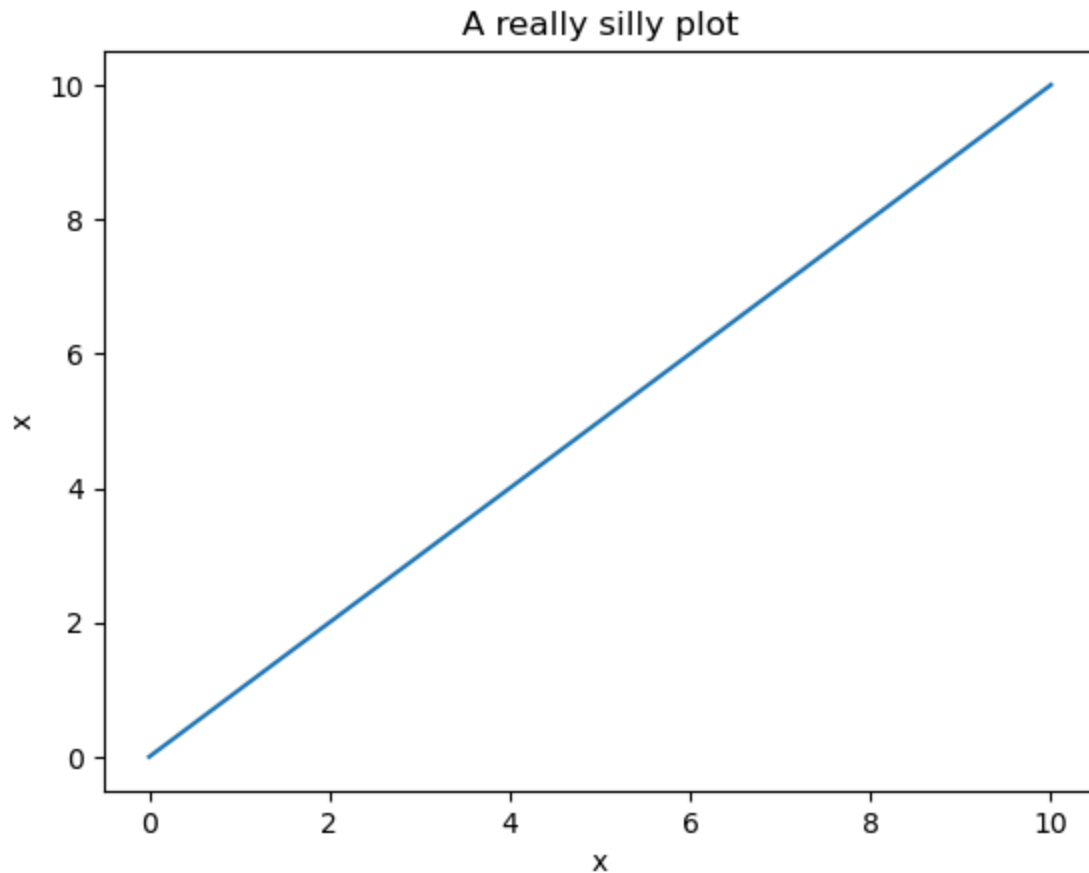

```
The max value of x is: 10
```

Out[42]:   3

In the code cell above, we defined a line, plotted it, and displayed its maximum value. That cell was designed to expose you to use of a code cell and how the results, either as a plot or as a display to the terminal, format in Matlab publish or in jupyter notebook. Note that this text is again formatted as paragraph. This means that in Matlab, this block is a comment block preceded with a blank line preceded by %%. In jupyter notebook, this means that this cell is again a markdown cell.