Excercise 1

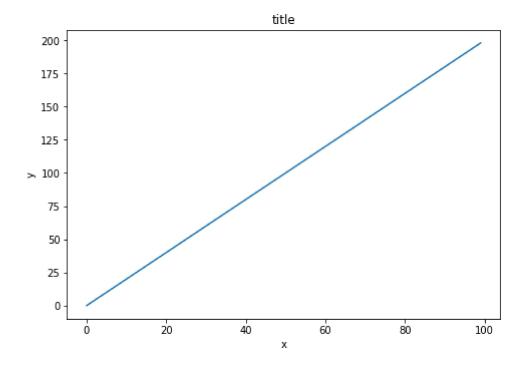
Create a figure object called fig using plt.figure()

Use add_axes to add an axis to the figure canvas at [0,0,1,1]

Plot (x,y) on that axes and set the labels and titles

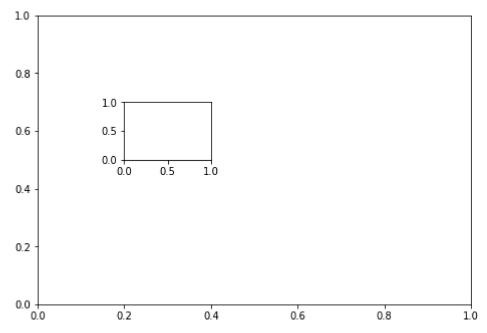
```
In [2]: mport matplotlib.pyplot as plt
    matplotlib inline
    ig = plt.figure()
    x=fig.add_axes([0,0,1,1])
    x.plot(x,y)
    x.set_xlabel('x')
    x.set_ylabel('y')
    x.set_title('title')
```

```
Out[2]: Text(0.5,1,'title')
```



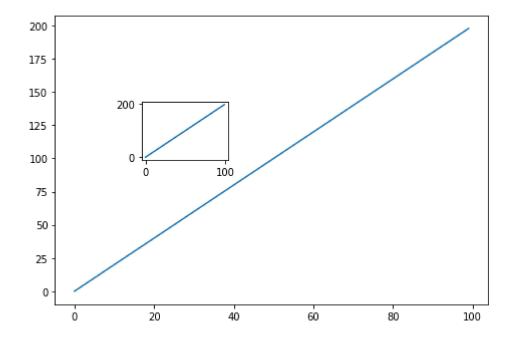
Excercise 2

Create a figure object and put two axes on it, ax1 and ax2. Located at [0,0,1,1] and [0.2,0.5,.2,.2] respectively



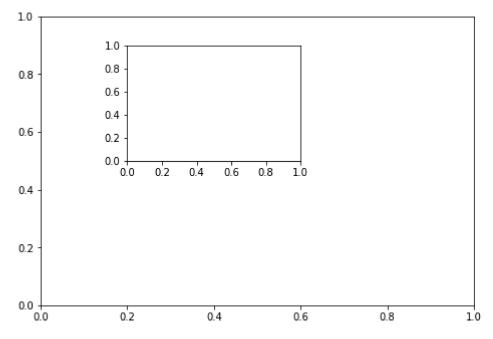
Now plot(x,y) on both axes. And call your figure object to show it.

Out[4]: [<matplotlib.lines.Line2D at 0x2406eeebf98>]



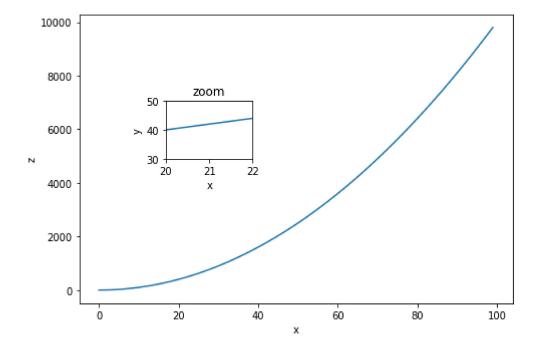
Excercise 3

Create the plot by adding two axes to a figure obeject at [0,0,1,1] and [0.2,0.5,.4,.4]



Now use x,y and z arrays to recreate the plot below. Notice the xlimits and ylimits on the inserted plot:

Out[6]: (30, 50)



Excercise 4

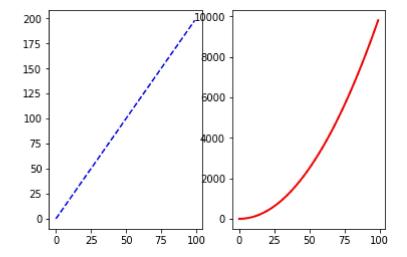
Use plt.subplots(nrows=1, ncols=2) to create the plot below.

```
In [7]:
          lt.subplots(nrows=1,ncols=2)
Out[7]:
          <Figure size 432x288 with 2 Axes>,
          array([<matplotlib.axes._subplots.AxesSubplot object at 0x000002406F05C9E8>,
                  <matplotlib.axes._subplots.AxesSubplot object at 0x000002406F097978</pre>
          ],
                 dtype=object))
          1.0
                                     1.0
          0.8
                                     0.8
          0.6
                                     0.6
          0.4
                                     0.4
          0.2
                                     0.2
                                  1.0
                          0.6
                              0.8
                                       0.0
                                                     0.6
                                                         0.8
```

Now plot (x,y) and (x,z) on the axes. Play around with the linewidth and stylea

```
In [8]: ig,ax1=plt.subplots(nrows=1,ncols=2)
    x1[0].plot(x,y,'b',ls='--')
    x1[1].plot(x,z,color='red',lw=2)
```

Out[8]: [<matplotlib.lines.Line2D at 0x2406f159a58>]



Resize the plot by adding the figsize() argument in plt.subplots() are copying and passing the previous code

In []: