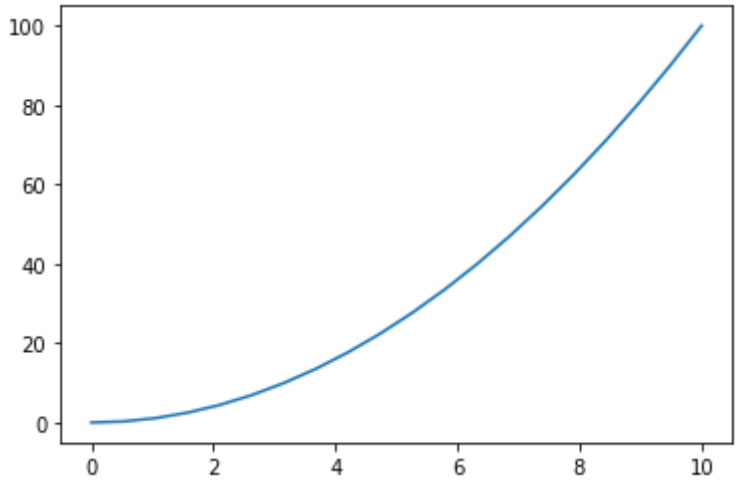
In [1]:
```
from matplotlib import pyplot as plt
import numpy as np
x = np.linspace(0,10,20)
y = x**2
plt.plot(x,y)
```

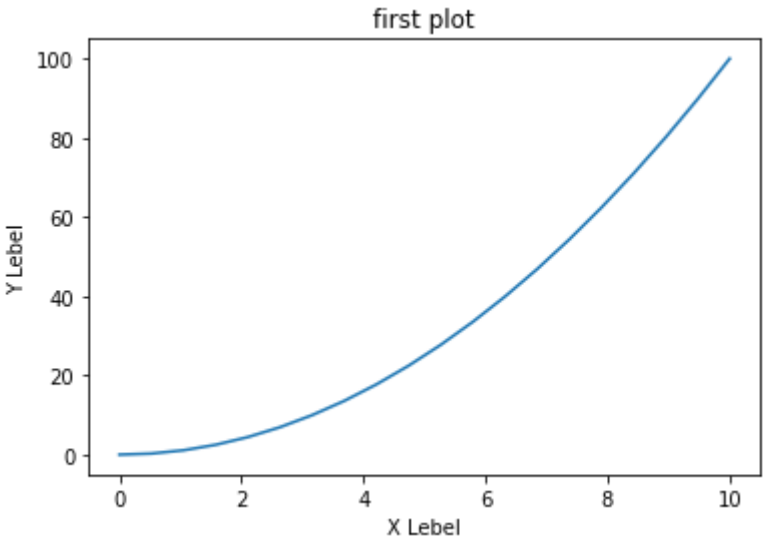
```
Matplotlib is building the font cache; this may take a moment.
```

Out[1]:
```
[<matplotlib.lines.Line2D at 0x7c93808>]
```



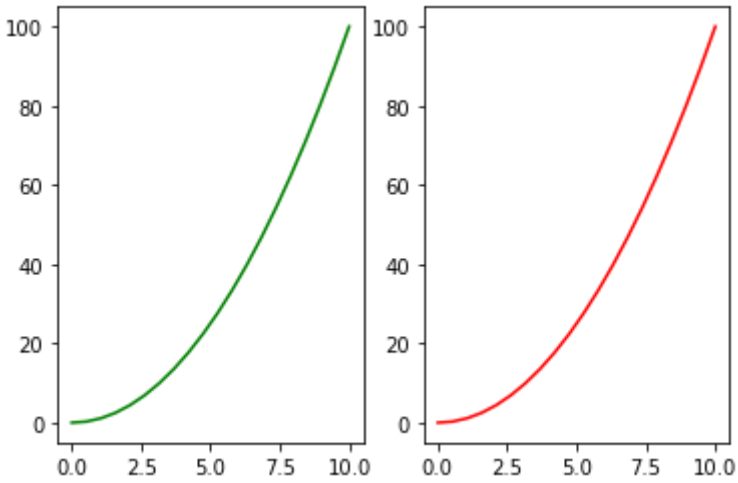
In [3]:
```
plt.plot(x,y)
plt.title('first plot')
plt.xlabel('X Lebel')
plt.ylabel('Y Lebel')
```

Out[3]:
```
Text(0, 0.5, 'Y Lebel')
```



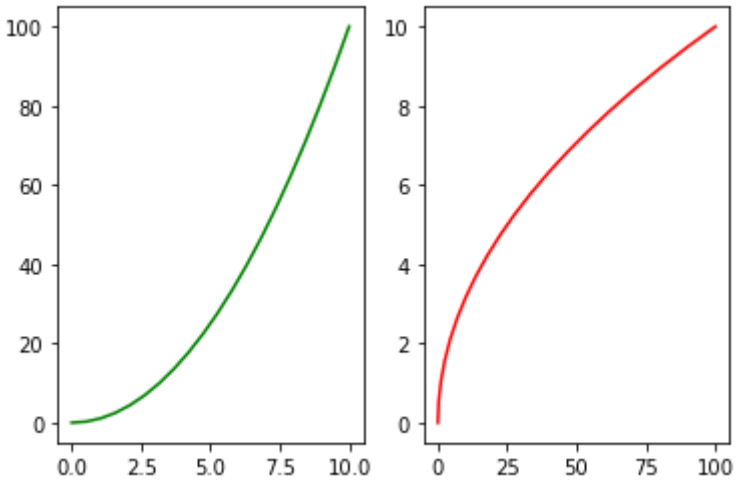
In [4]:
```
#plt.subplot(nrows,ncols,plot_number)
plt.subplot(1,2,1)
plt.plot(x,y,'green')
plt.subplot(1,2,2)
plt.plot(x,y,'red')
```

Out[4]:
```
[<matplotlib.lines.Line2D at 0x16d2430>]
```



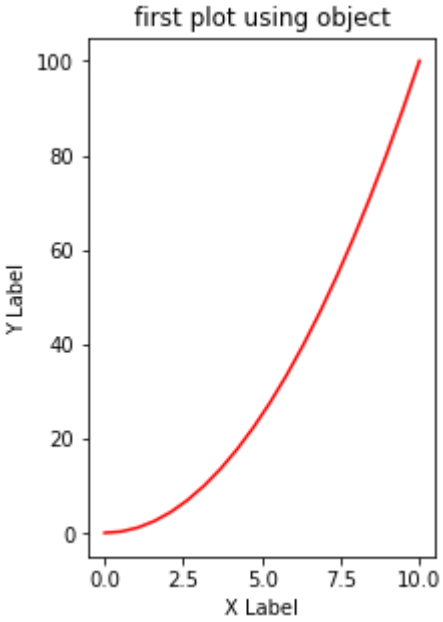
In [5]:
```
#plt.subplot(nrows,ncols,plot_number)
plt.subplot(1,2,1)
plt.plot(x,y,'green')
plt.subplot(1,2,2)
plt.plot(y,x,'red')
```

Out[5]:
```
[<matplotlib.lines.Line2D at 0x172df88>]
```



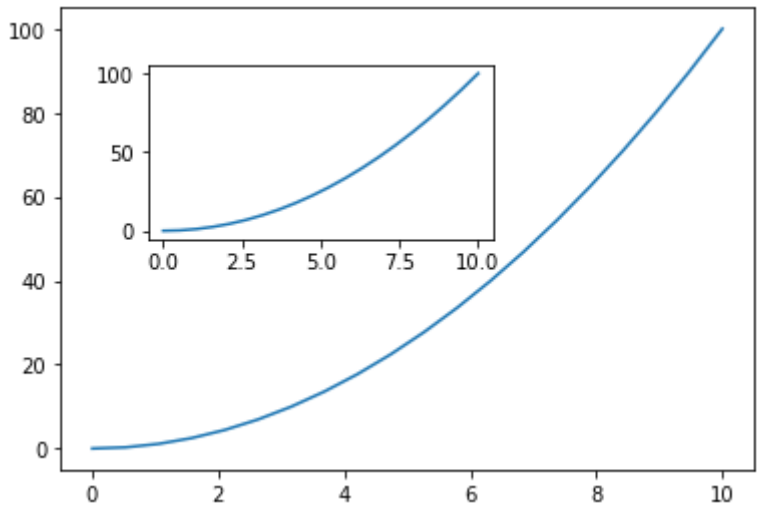
In [7]:
```
fig=plt.figure()
ax=fig.add_axes([0.1,0.2,0.4,0.9])
ax.plot(x,y,'red')
ax.set_xlabel('X Label')
ax.set_ylabel('Y Label')
ax.set_title('first plot using object')
```

Out[7]:
```
Text(0.5, 1.0, 'first plot using object')
```



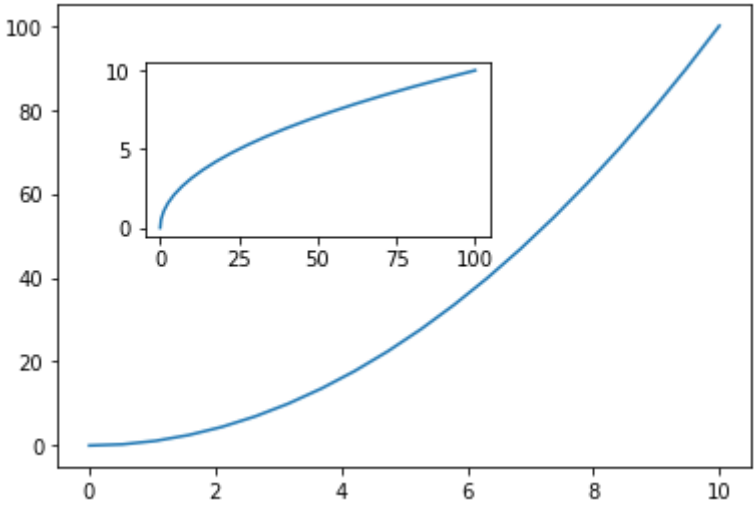
In [8]:
```
fig=plt.figure()
axes1=fig.add_axes([0.1,0.1,0.8,0.8])
axes2=fig.add_axes([0.2,0.5,0.4,0.3])
axes1.plot(x,y)
axes2.plot(x,y)
```

Out[8]: [<matplotlib.lines.Line2D at 0x1887bf8>]



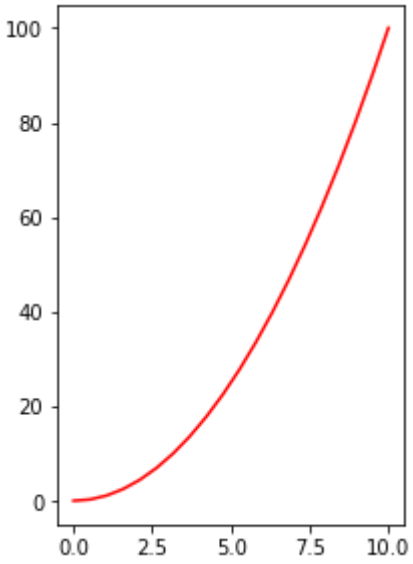
In [9]:
```
fig=plt.figure()
axes1=fig.add_axes([0.1,0.1,0.8,0.8])
axes2=fig.add_axes([0.2,0.5,0.4,0.3])
axes1.plot(x,y)
axes2.plot(y,x)
```

Out[9]: [<matplotlib.lines.Line2D at 0x18ef1a8>]



In [10]:
```
fig=plt.figure()
ax=fig.add_axes([0.1,0.2,0.4,0.9])
ax.plot(x,y,'red')
```

Out[10]: [<matplotlib.lines.Line2D at 0x1928a90>]



In [ ]: