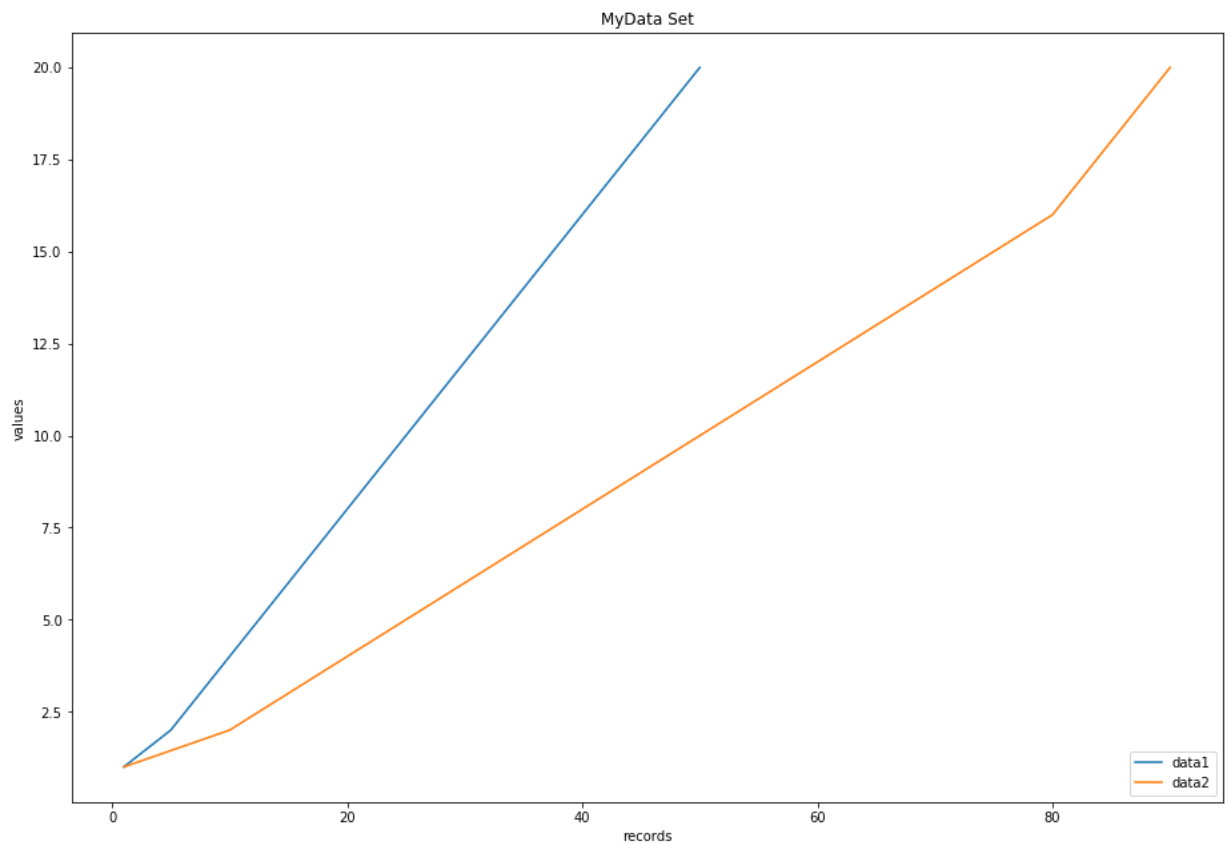


```
In [1]: import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
```

```
In [2]: y = [1,2,4,6,8,10,12,14,16,18,20]
data1 = [1,5,10,15,20,25,30,35,40,45,50]
data2 = [1,10,20,30,40,50,60,70,80,85,90]
```

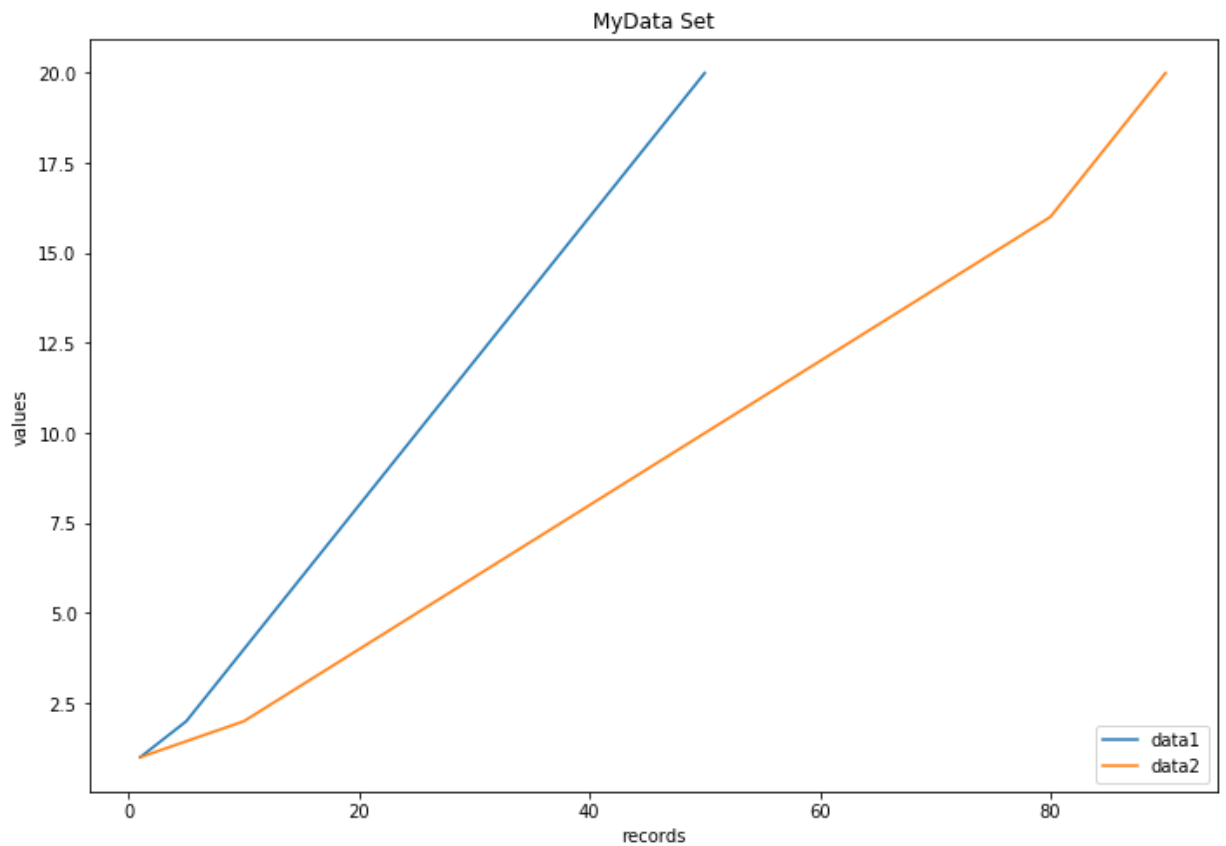
```
In [3]: fig = plt.figure()

# add_axes([left,bottom,width,height] => 0.0 - 1.0)
res = fig.add_axes([0,0,2,2])
f1 = plt.plot(data1,y)
f2 = plt.plot(data2,y)
res.set_title("MyData Set")
res.legend(labels=("data1", "data2"),loc="lower right")
res.set_xlabel("records")
res.set_ylabel("values")
plt.show()
```



```
In [4]: fig = plt.figure()

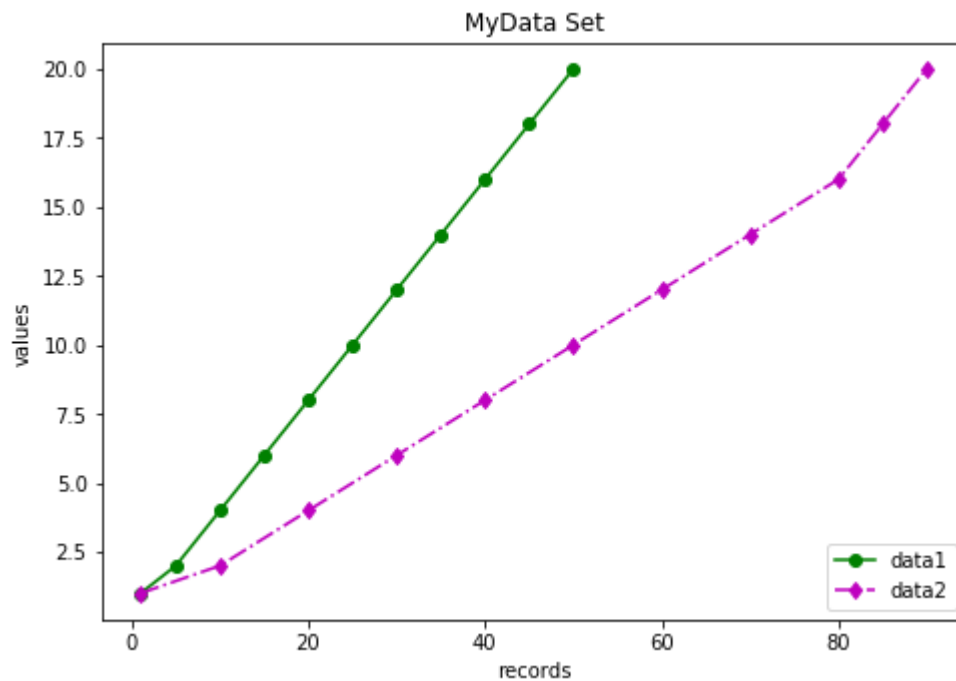
# add_axes([left,bottom,width,height] => 0.0 - 1.0)
res = fig.add_axes([0,0,1.5,1.5])
f1 = plt.plot(data1,y)
f2 = plt.plot(data2,y)
res.set_title("MyData Set")
res.legend(labels=("data1", "data2"),loc="lower right")
res.set_xlabel("records")
res.set_ylabel("values")
plt.show()
```



```
In [ ]:
```

```
In [5]: fig = plt.figure()

# add_axes([left,bottom,width,height] => 0.0 - 1.0)
res = fig.add_axes([0,0,1,1])
f1 = plt.plot(data1,y,'go-')
f2 = plt.plot(data2,y,'md-.')
res.set_title("MyData Set")
res.legend(labels=("data1","data2"),loc="lower right")
res.set_xlabel("records")
res.set_ylabel("values")
plt.show()
```



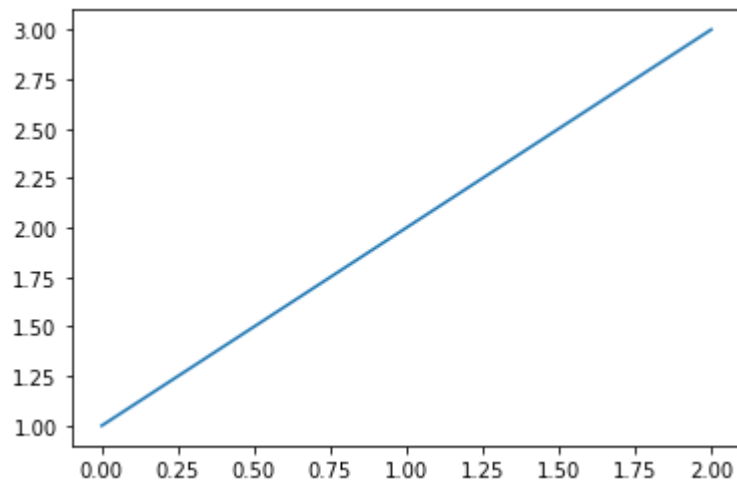
In [ ]:

In [ ]:

In [ ]: *# Subplot*

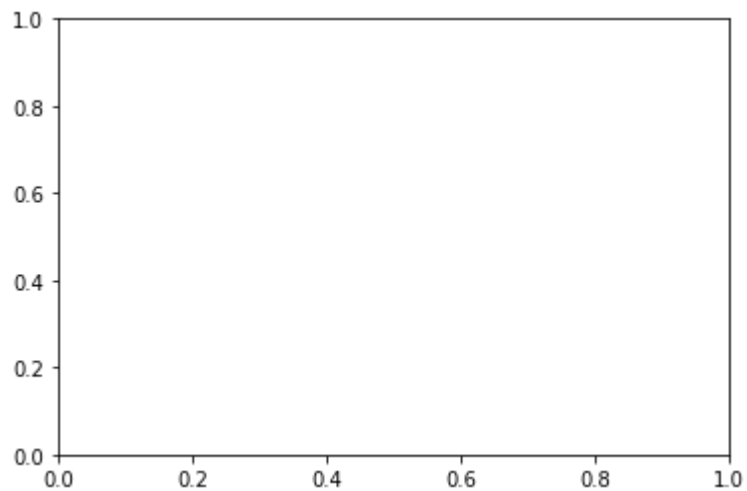
```
In [6]: plt.plot([1,2,3])
```

```
Out[6]: [<matplotlib.lines.Line2D at 0x1b415c10668>]
```



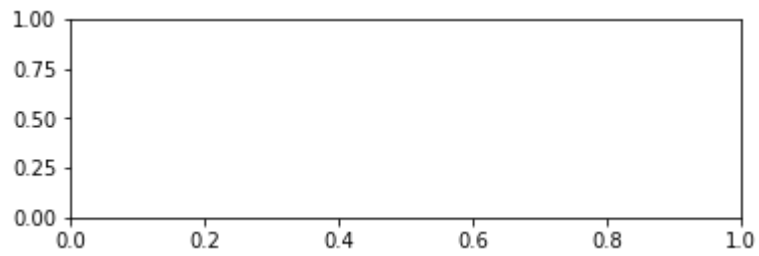
```
In [7]: plt.subplot(111)
```

```
Out[7]: <matplotlib.axes._subplots.AxesSubplot at 0x1b415c62be0>
```



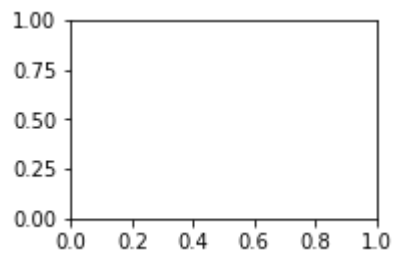
```
In [8]: plt.subplot(211) # => 2 rows one column
```

```
Out[8]: <matplotlib.axes._subplots.AxesSubplot at 0x1b415cb78d0>
```



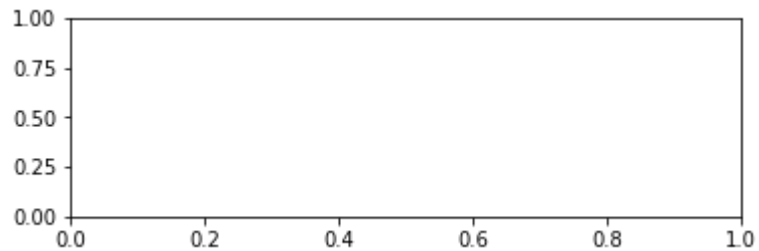
```
In [9]: plt.subplot(221) # => 2 column one row
```

```
Out[9]: <matplotlib.axes._subplots.AxesSubplot at 0x1b41574aa20>
```



```
In [11]: plt.subplot(212)
```

```
Out[11]: <matplotlib.axes._subplots.AxesSubplot at 0x1b415ccb400>
```



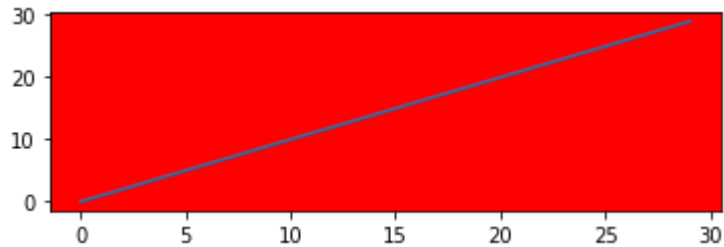
```
In [ ]:
```

```
In [ ]:
```

In [14]: *# Eg*

```
plt.plot([1,2,3])  
plt.subplot(211, facecolor='r')  
plt.plot(range(30))
```

Out[14]: [*<matplotlib.lines.Line2D at 0x1b41582b1d0>*]



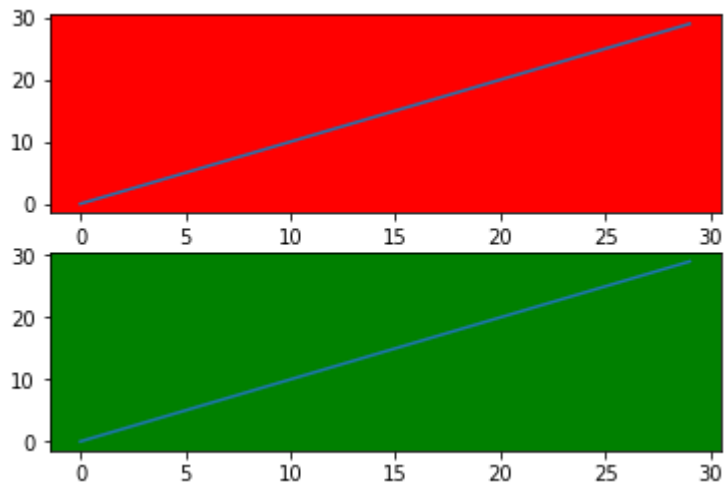
In [17]: *# 211 ==> 2 column 1 graph 1 = row*

*# 212 ==> 2 column 1 graph 2 = row*

```
plt.plot([1,2,3])  
plt.subplot(211, facecolor='r')  
plt.plot(range(30))
```

```
plt.subplot(212, facecolor='g')  
plt.plot(range(30))
```

Out[17]: [*<matplotlib.lines.Line2D at 0x1b415a5bd68>*]



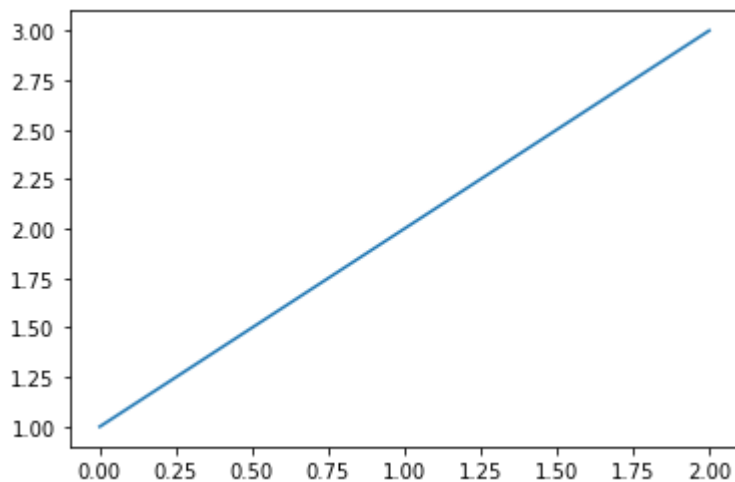
In [ ]:

In [ ]:

```
In [18]: # eg

import matplotlib.pyplot as plt
res = plt.figure()
data1 = res.add_subplot(111)
data1.plot([1,2,3])
```

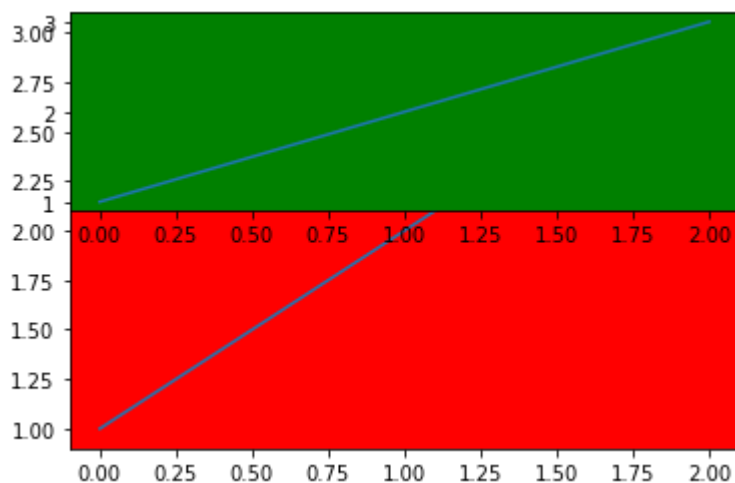
Out[18]: [`<matplotlib.lines.Line2D at 0x1b4158babe0>`]



```
In [19]: import matplotlib.pyplot as plt
res = plt.figure()
data1 = res.add_subplot(111,facecolor='r')
data1.plot([1,2,3])

data1 = res.add_subplot(211,facecolor='g')
data1.plot([1,2,3])
```

Out[19]: [`<matplotlib.lines.Line2D at 0x1b415b3e9e8>`]



```
In [20]: import matplotlib.pyplot as plt
res = plt.figure()
data1 = res.add_subplot(111,facecolor='r')
data1.plot([1,2,3])

data1 = res.add_subplot(221,facecolor='g')
data1.plot([1,2,3])
```

Out[20]: [<matplotlib.lines.Line2D at 0x1b416d77898>]

