

# Matplotlib

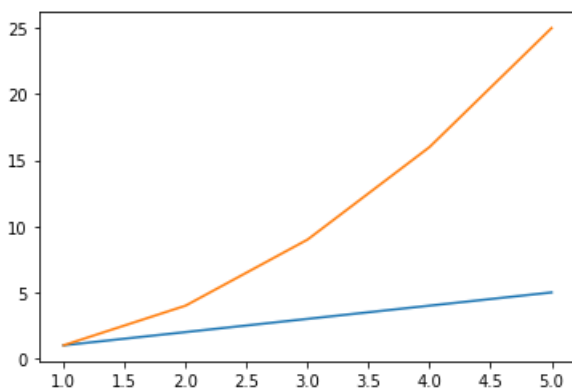
## 1. Pyplot

In [4]:

```
import numpy as np
import matplotlib.pyplot as plt

x = np.array([1,2,3,4,5])
y1 = np.array([1,2,3,4,5])
y2 = y1**2

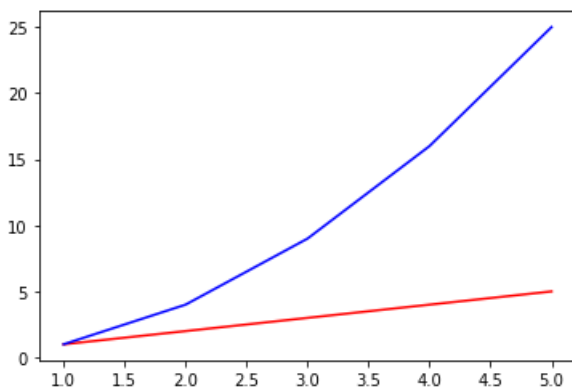
plt.plot(x,y1)
plt.plot(x,y2)
plt.show()
```



## 2. Set Warna dan Marker

In [5]:

```
plt.plot(x,y1, 'r')
plt.plot(x,y2, 'b')
plt.show()
```



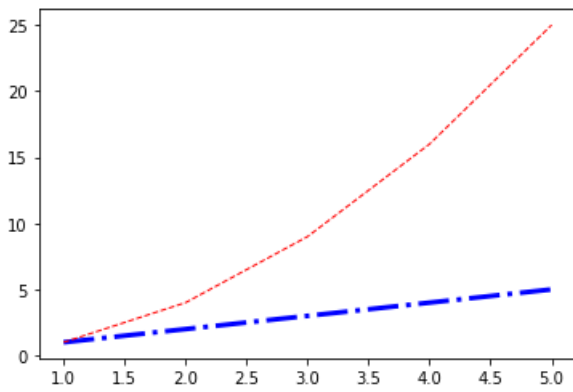
## 3. Set Properties

In [14]:

```
plot_a = plt.plot(x,y1)
plot_b = plt.plot(x,y2)

plt.setp(plot_a, color = 'b', linestyle = '-.', linewidth = 3)
plt.setp(plot_b, color = 'r', linestyle = '--', linewidth = 1)
```

```
plt.show()
```



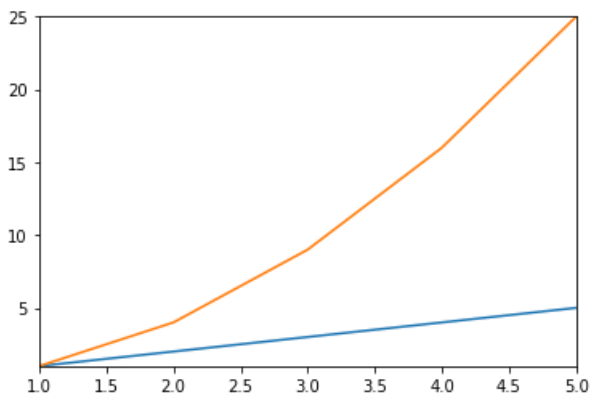
## 4. Set Axis

In [17]:

```
plt.plot(x,y1)
plt.plot(x,y2)

#plt.axis([xmin, xmax, ymin, ymax])
plt.axis([1, 5, 1, 25])

plt.show()
```



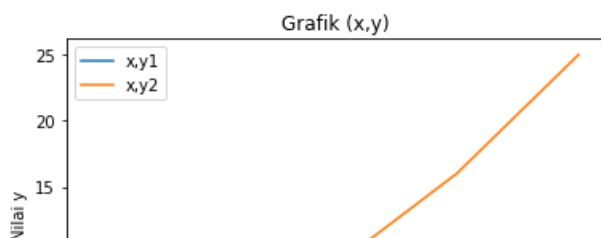
## 5. Set Label, Title, Legend

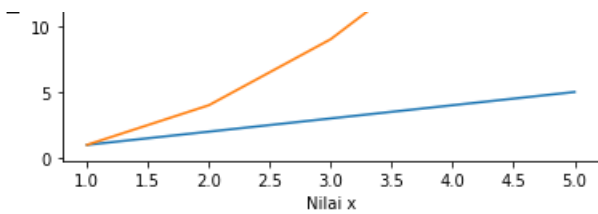
In [21]:

```
plt.plot(x,y1, label = 'x,y1')
plt.plot(x,y2, label = 'x,y2')
plt.legend(loc = 'upper left')

plt.title('Grafik (x,y)')
plt.xlabel('Nilai x')
plt.ylabel('Nilai y')

plt.show()
```





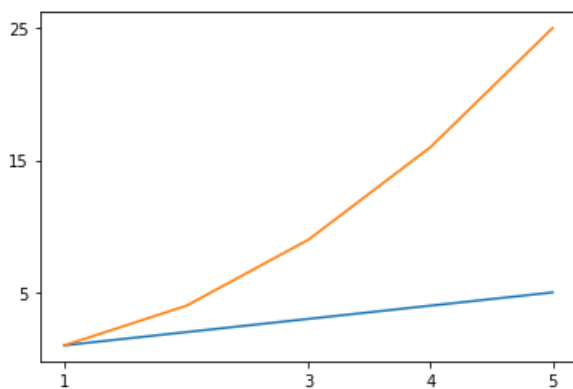
## 6. Set Ticks

In [24]:

```
plt.plot(x,y1)
plt.plot(x,y2)

plt.xticks([1,3,4,5])
plt.yticks([5,15,25])

plt.show()
```

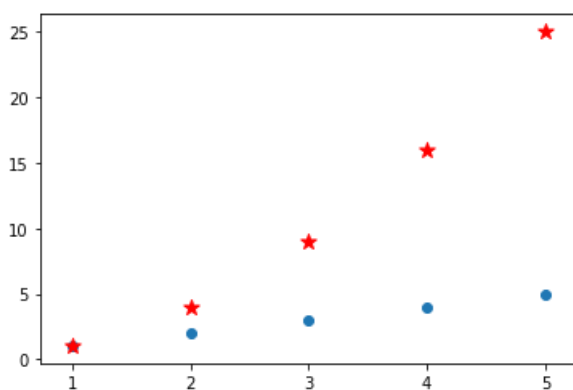


## 7. Scatter

In [29]:

```
plt.scatter(x,y1)
plt.scatter(x,y2, marker = '*', s=100, c='red')

plt.show()
```



## 8. Subplot

In [34]:

```
fig, axes = plt.subplots(nrows = 1, ncols = 2)
axes[0].plot(x,y1)
axes[1].plot(x,y2)
```

Out[34]:

[<matplotlib.lines.Line2D at 0x1f75afe6e10>]

