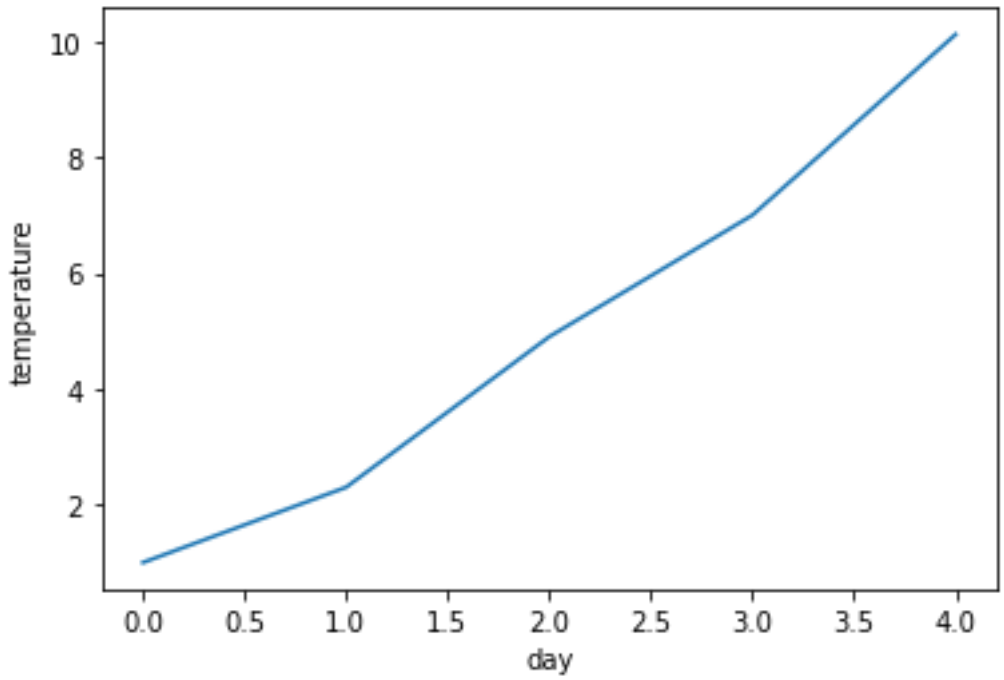
# Matplotib pyplot

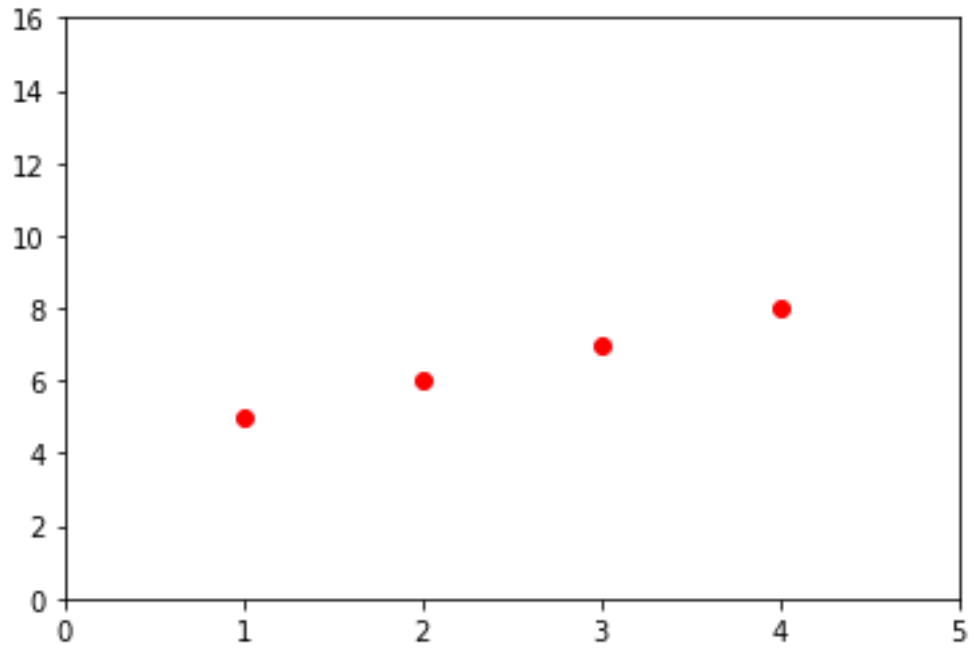
```
>>
import matplotlib.pyplot as mp
k=[1,2.3,4.9,7,10.12]
mp.plot(k) # plots the values of k graphically
mp.xlabel('day') # gives a name to th x axis
mp.ylabel('temperature') # gives a name to the y axis
# mp.show() # shows the graph

# here we have not fixed the range of the graph plot. we will see that later
```

```
Text(0, 0.5, 'temperature')
```




```
>>
# k=([1,2,3,4],[5,6,7,8])
mp.plot([1,2,3,4],[5,6,7,8],'ro') # 'ro' means the color will be red and the shape will
be round
# x = 1,2,3,4
# y = 5,6,7,8
```

```
mp.axis([0,5,0,16]) # sets the range of x and y axis
mp.show()
```




```
>>
a=np.array([1,2,3,4,5])
mp.plot(a,a**2,'bo',a,a**3,'m^')
mp.axis([0,6,0,150])
(0.0, 6.0, 0.0, 150.0)
```