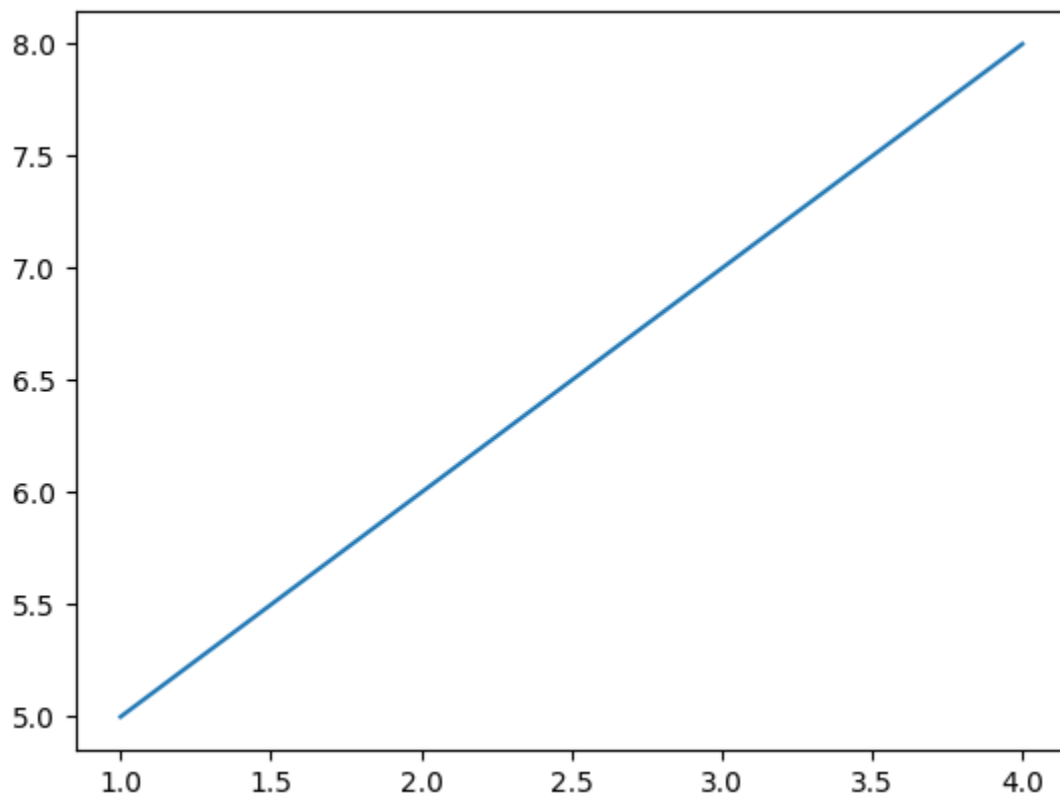


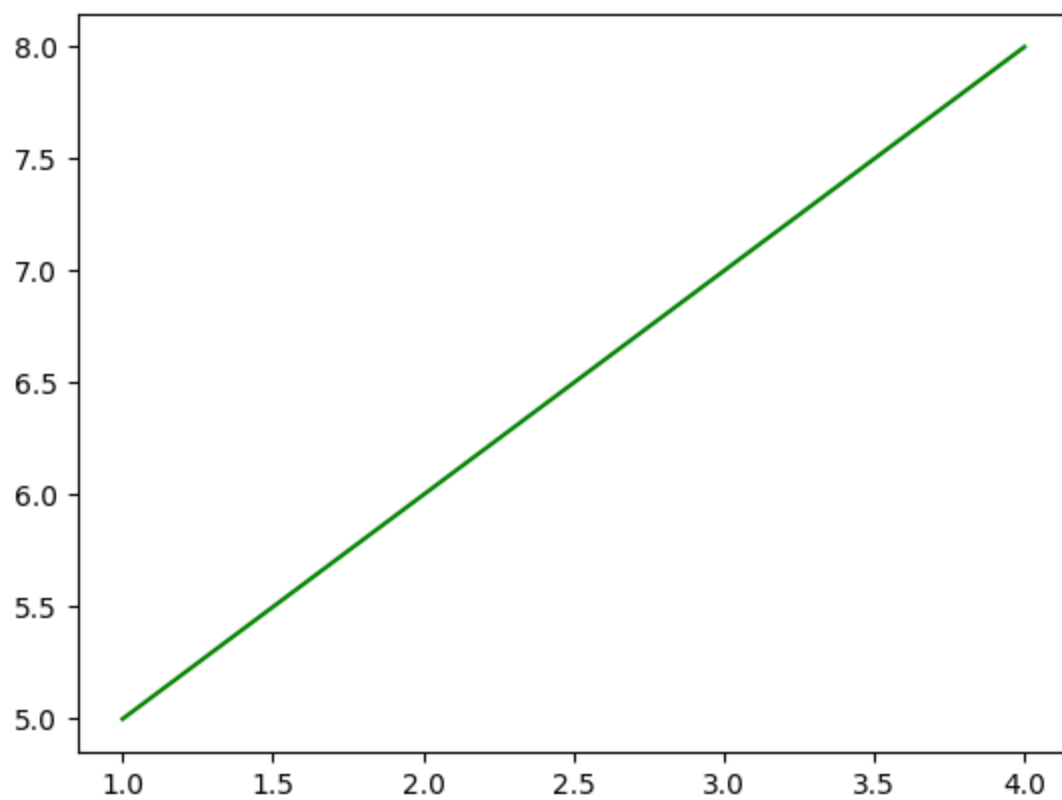
```
In [33]: import matplotlib.pyplot as plt
import numpy as np
```

linear graph

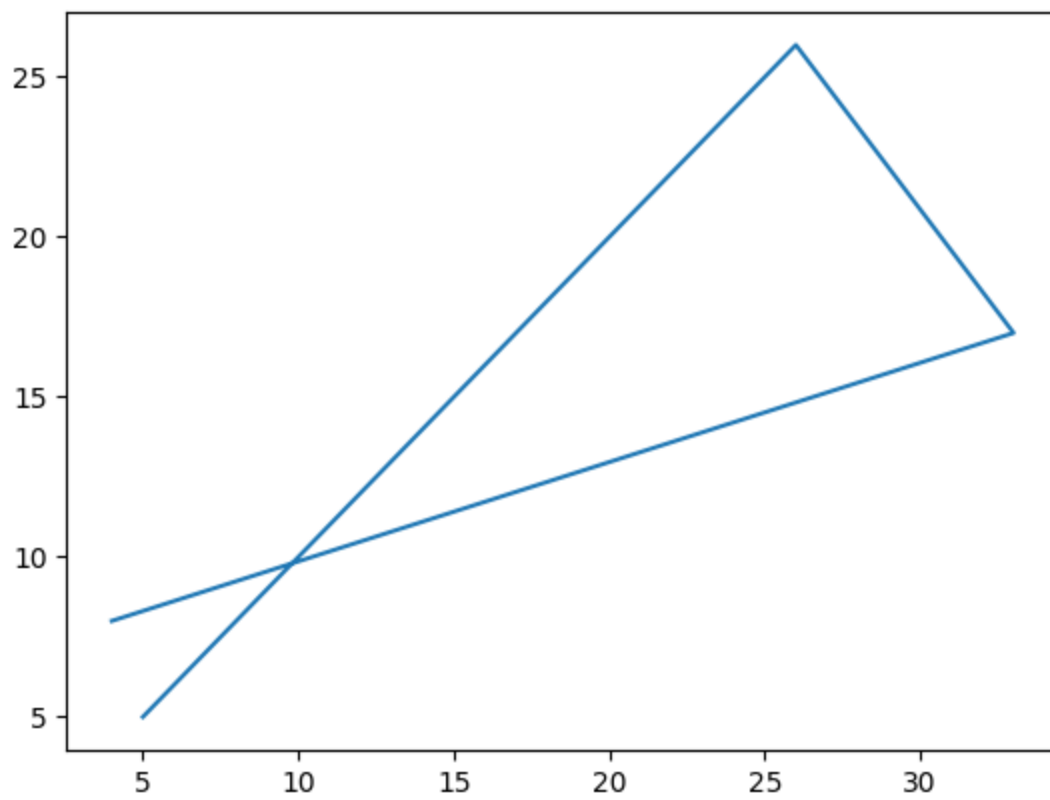
```
In [34]: x=[1,2,3,4]
y=[5,6,7,8]
plt.plot(x,y)
plt.show()
```



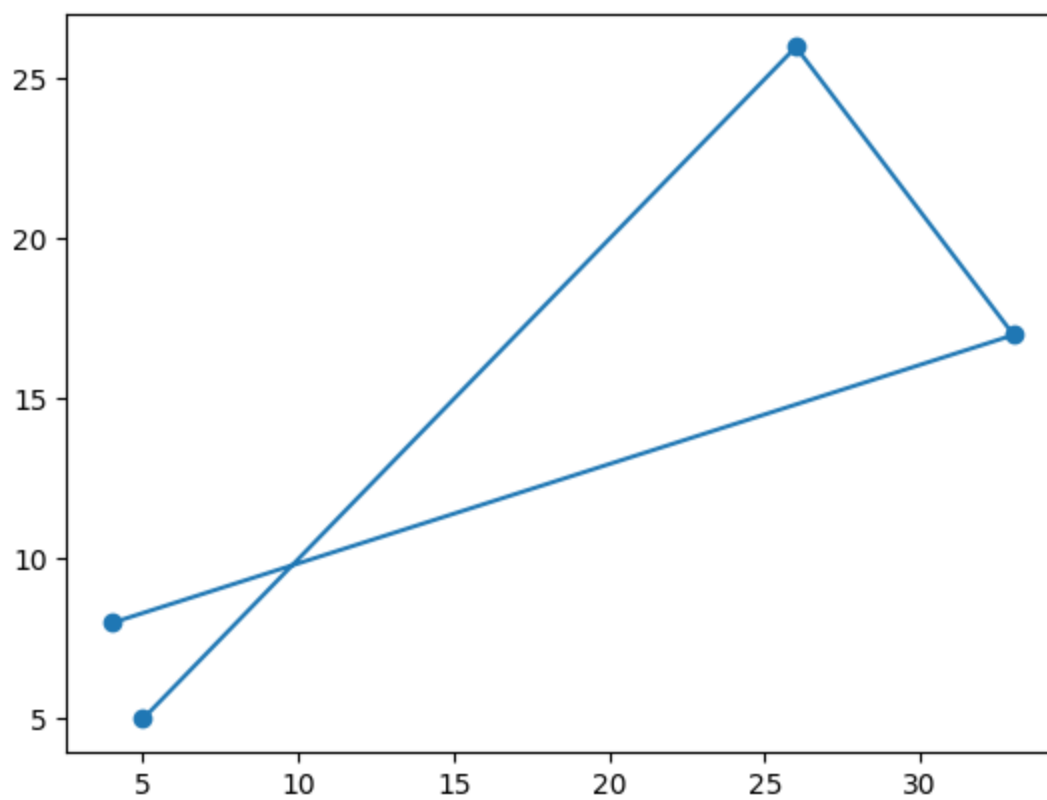
```
In [35]: x=[1,2,3,4]
y=[5,6,7,8]
c='green'
plt.plot(x,y,c)
plt.show()
```



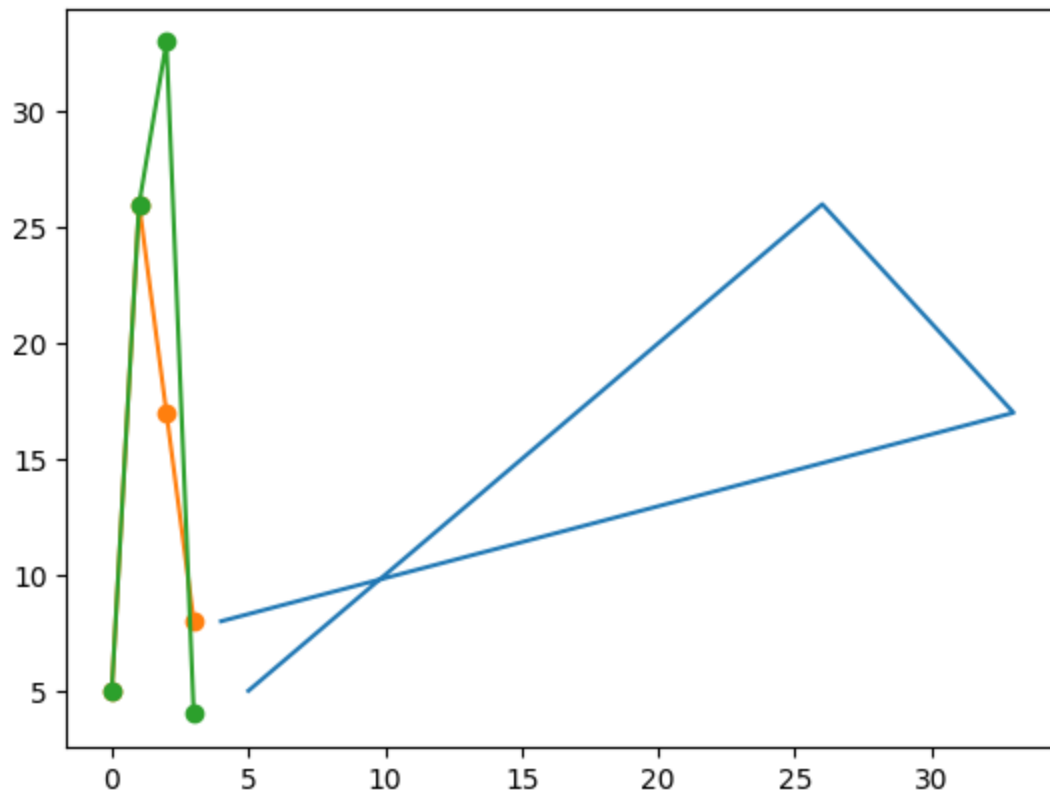
```
In [36]: x=[5,26,33,4]
          y=[5,26,17,8]
          plt.plot(x,y)
          plt.show()
```



```
In [37]: x=[5,26,33,4]
y=[5,26,17,8]
plt.plot(x,y ,marker='o')
plt.show()
```

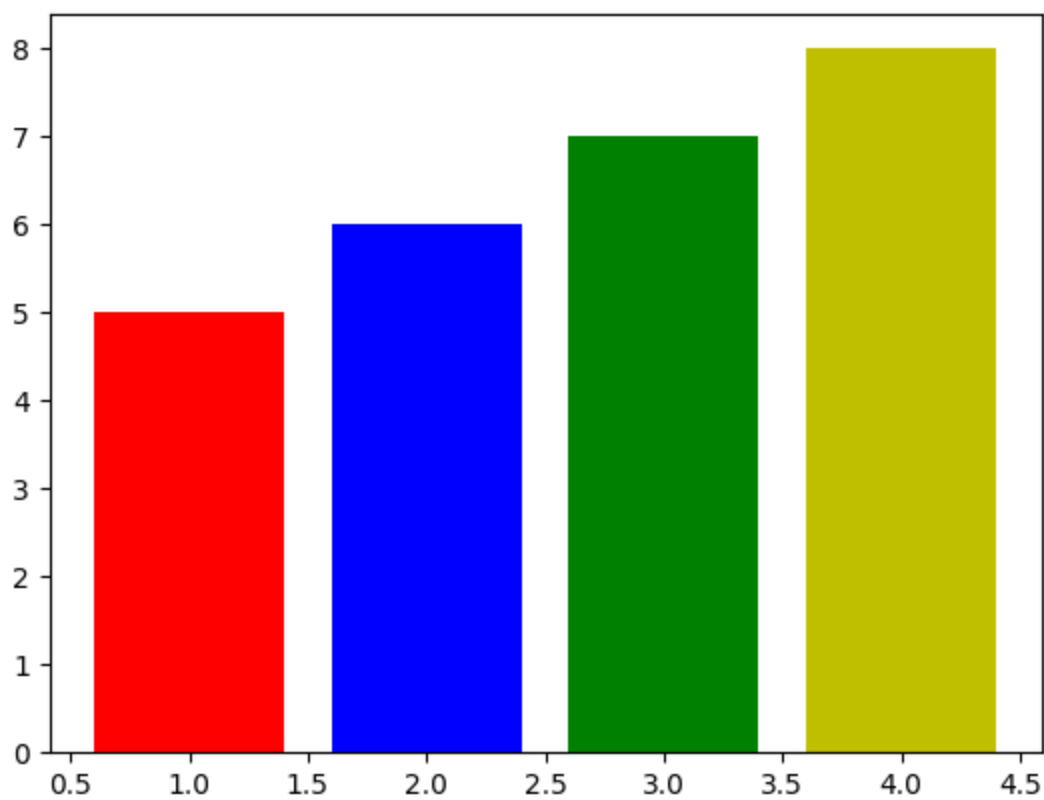


```
In [38]: x=[5,26,33,4]
y=[5,26,17,8]
plt.plot(x,y)
plt.plot(y ,marker='o')
plt.plot(x ,marker='o')
plt.show()
```



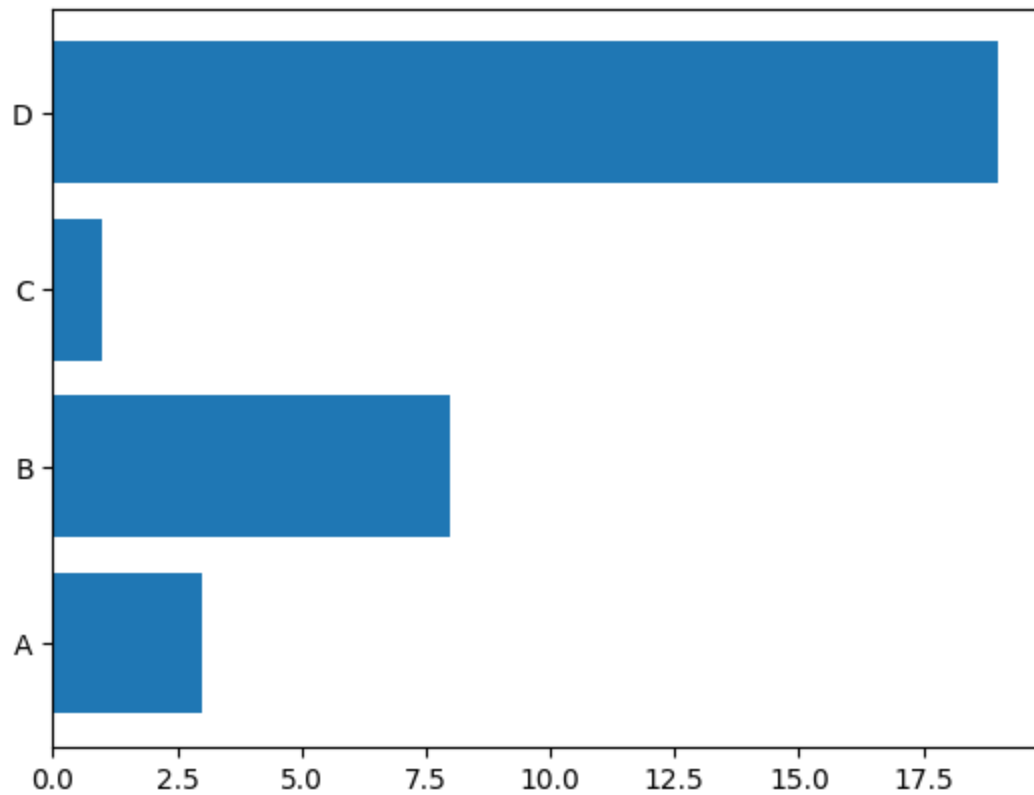
Bar Graph

```
In [39]: x=[1,2,3,4]
y=[5,6,7,8]
c=['r','b','g','y']
plt.bar(x,y, color=c)
plt.show()
```



horizontal bar graph

```
In [44]: z=np.array(['A','B','C','D'])  
y=np.array([3,8,1,19])  
plt.barh(z,y)  
plt.show()
```



```
In [50]: z=np.array(['A','B','C','D'])
y=np.array([3,8,1,19])
plt.bar(z,y, color='red' , width=0.5)
plt.show()
```

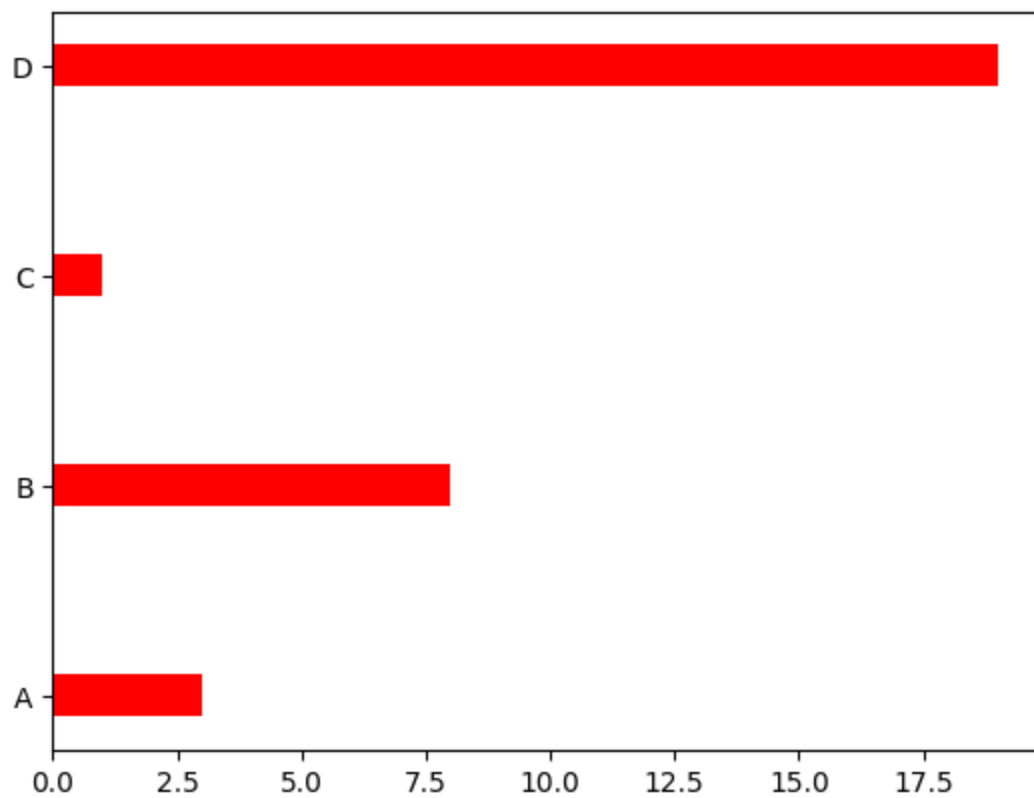
Cell In[50], line 3

```
plt.bar(z,y, color='red' , width=0.5 ,height 0.1)
      ^
```

**SyntaxError:** invalid syntax. Perhaps you forgot a comma?

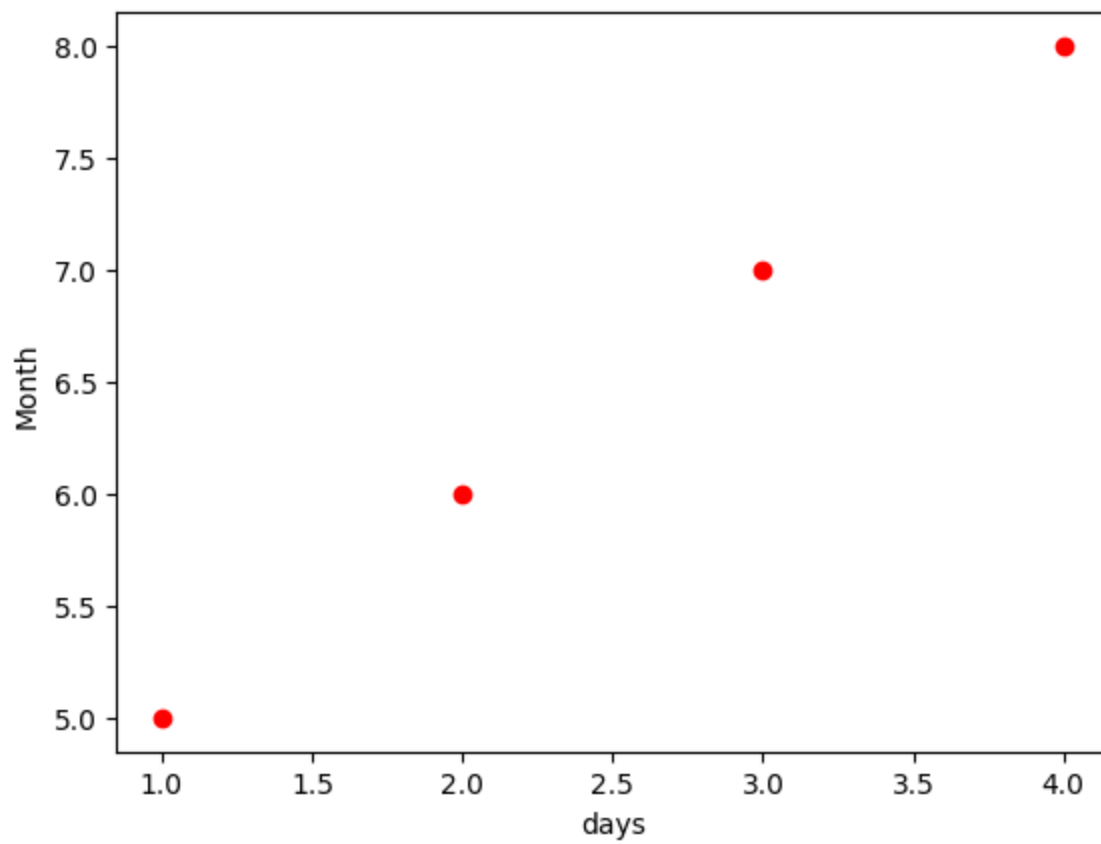
Width Changes

```
In [51]: z=np.array(['A','B','C','D'])
y=np.array([3,8,1,19])
plt.barh(z,y, color= 'red', height=0.2)
plt.show()
```

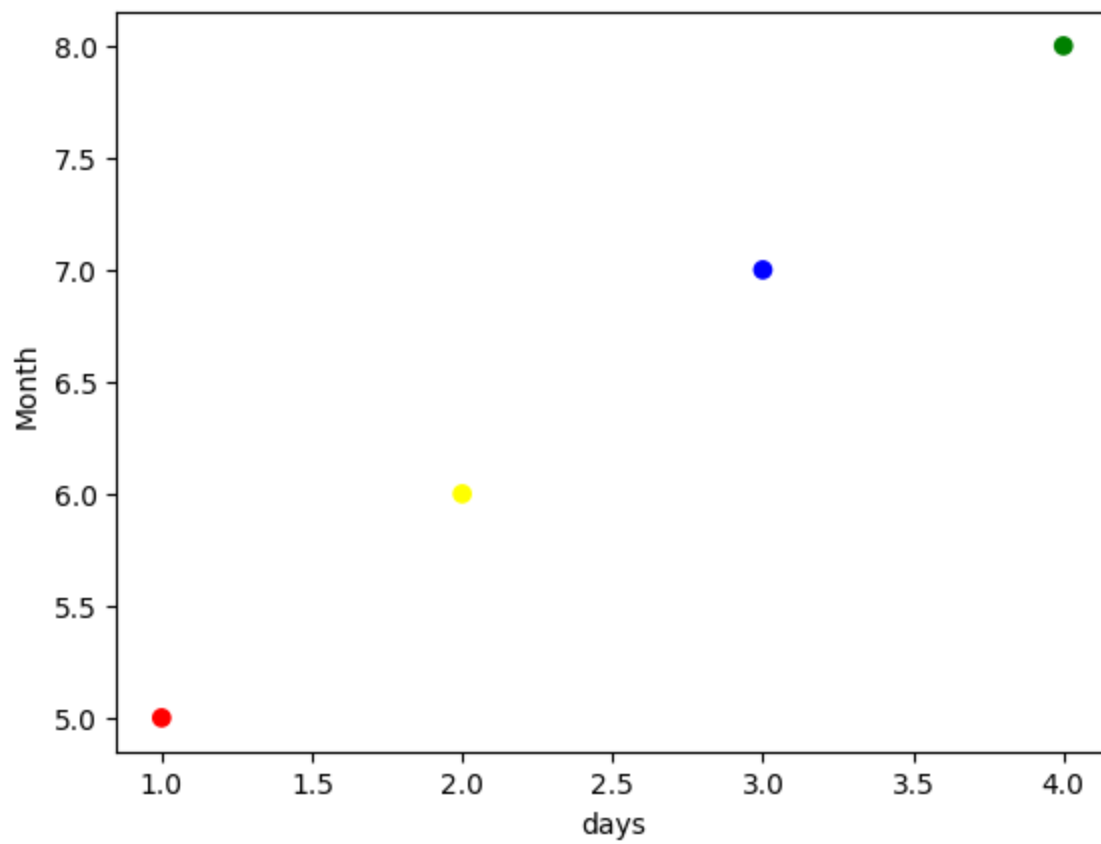


Scatter Plot

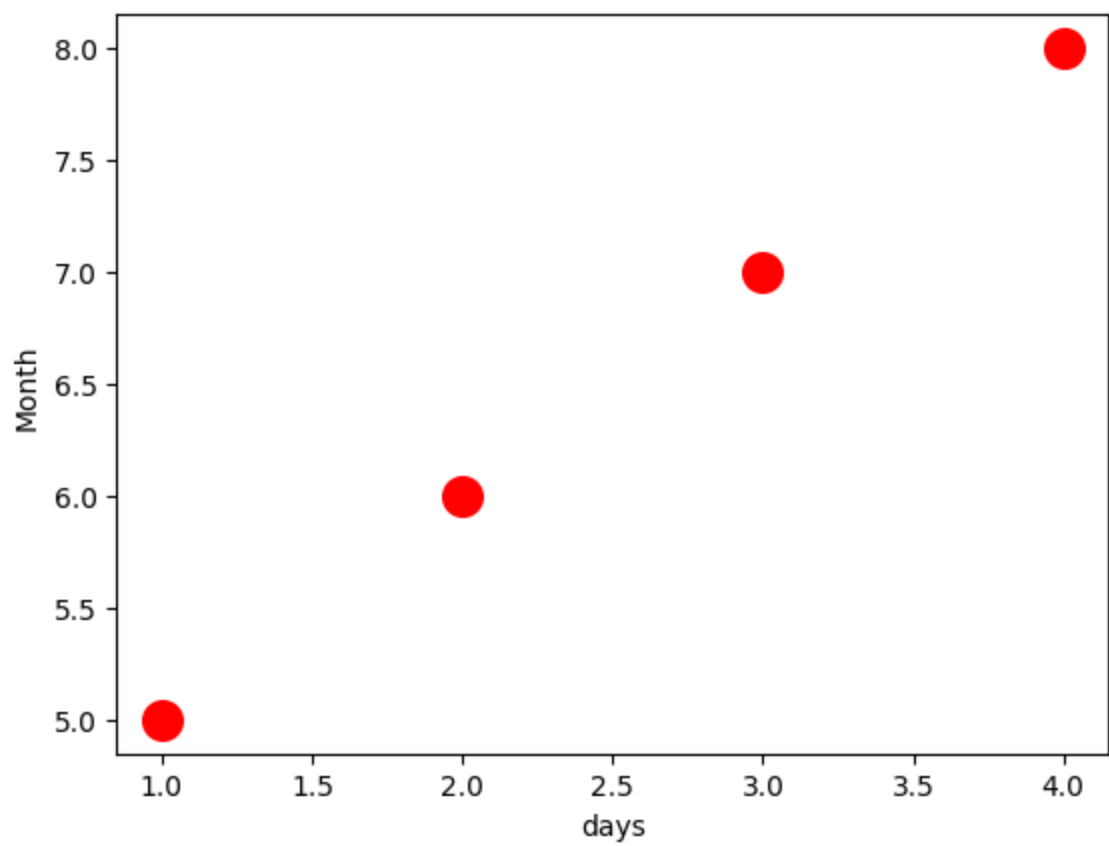
```
In [54]: x=[1,2,3,4]
y=[5,6,7,8]
plt.ylabel('Month')
plt.xlabel('days')
plt.scatter(x,y ,color ='red')
plt.show()
```



```
In [56]: x=[1,2,3,4]
y=[5,6,7,8]
plt.ylabel('Month')
plt.xlabel('days')
c=['red','yellow','blue','green']
plt.scatter(x,y ,color=c)
plt.show()
```



```
In [57]: x=[1,2,3,4]
y=[5,6,7,8]
plt.ylabel('Month')
plt.xlabel('days')
plt.scatter(x,y ,color ='red' , s=200)
plt.show()
```



In [ ]: