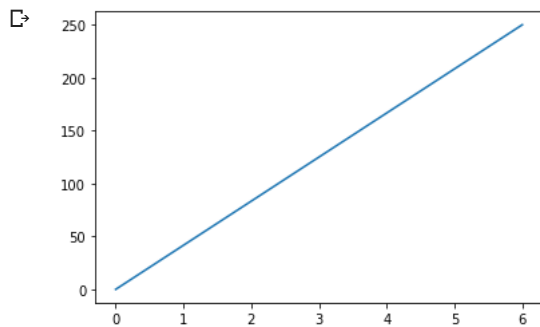


```
!pip install matplotlib
```

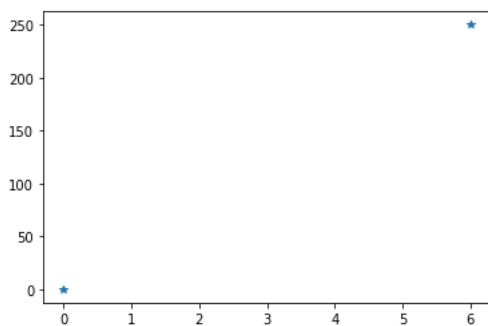
```
Looking in indexes: https://pypi.org/simple, https://us-python.pkg.dev/colab-wheels/public/simple/
Requirement already satisfied: matplotlib in /usr/local/lib/python3.9/dist-packages (3.5.3)
Requirement already satisfied: numpy>=1.17 in /usr/local/lib/python3.9/dist-packages (from matplotlib) (1.22.4)
Requirement already satisfied: kiwisolver>=1.0.1 in /usr/local/lib/python3.9/dist-packages (from matplotlib) (1.4.4)
Requirement already satisfied: pillow>=6.2.0 in /usr/local/lib/python3.9/dist-packages (from matplotlib) (8.4.0)
Requirement already satisfied: pyparsing>=2.2.1 in /usr/local/lib/python3.9/dist-packages (from matplotlib) (3.0.9)
Requirement already satisfied: python-dateutil>=2.7 in /usr/local/lib/python3.9/dist-packages (from matplotlib) (2.8.2)
Requirement already satisfied: cycler>=0.10 in /usr/local/lib/python3.9/dist-packages (from matplotlib) (0.11.0)
Requirement already satisfied: packaging>=20.0 in /usr/local/lib/python3.9/dist-packages (from matplotlib) (23.0)
Requirement already satisfied: fonttools>=4.22.0 in /usr/local/lib/python3.9/dist-packages (from matplotlib) (4.39.0)
Requirement already satisfied: six>=1.5 in /usr/local/lib/python3.9/dist-packages (from python-dateutil>=2.7->matplotlib) (1.15.0)
```

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

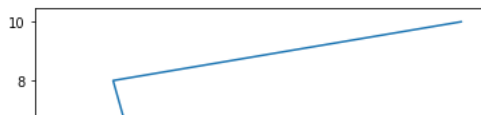
```
##Drawing a line in a diagram from position (0,0) to (6, 250):
xpoint=np.array([0,6])
ypoint=np.array([0,250])
plt.plot(xpoint,ypoint)
plt.show()
```



```
#Drawing a line in a diagram from position (0,0) to (6, 250): without line
xpoint=np.array([0,6])
ypoint=np.array([0,250])
plt.plot(xpoint,ypoint,'*')
plt.show()
```



```
#Draw a line in a diagram from position (1, 3) to (2, 8) then to (6, 1) and finally to position (8, 10):
parag=np.array([1,3,2,8])
pawan=np.array([6,1,8,10])
plt.plot(parag,pawan)
plt.show()
```

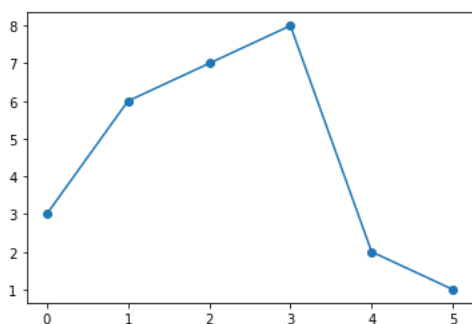


#Here we do not specify the x points:#Mark each point with a circle:

```
ypoints=np.array([3,6,7,8,2,1])
```

```
plt.plot(ypoints,marker='o')
```

```
plt.show()
```

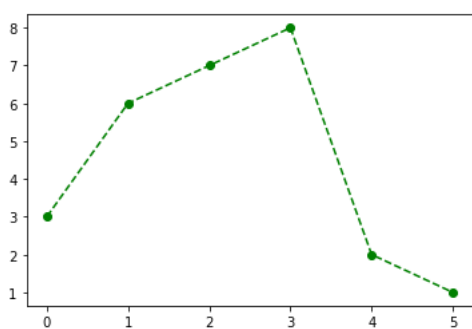


```
xpoint=np.array([1,6,9,5])
```

```
ypoint=np.array([1,90,6,3])
```

```
plt.plot(ypoints,'o--g')
```

```
plt.show()
```



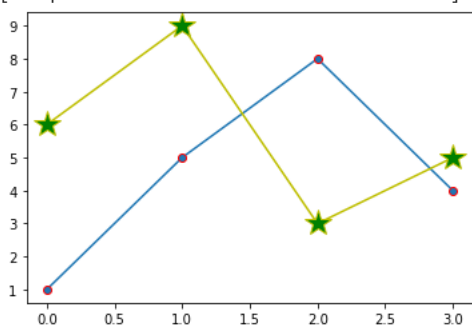
```
xpoint=np.array([1,5,8,4])
```

```
ypoint=np.array([6,9,3,5])
```

```
plt.plot(xpoint,marker='o',mec='r')
```

```
plt.plot(ypoint,marker='*',mfc='g',ms=20,color='y')
```

[<matplotlib.lines.Line2D at 0x7f84e50053a0>]



```
!pip install emoji
```

Looking in indexes: <https://pypi.org/simple>, <https://us-python.pkg.dev/colab-wheels/public/simple/>

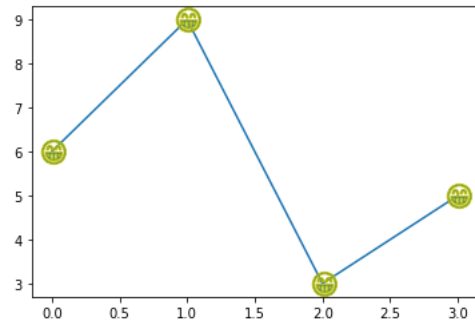
Requirement already satisfied: emoji in /usr/local/lib/python3.9/dist-packages (2.2.0)

```
xpoint=np.array([1,5,8,4])
```

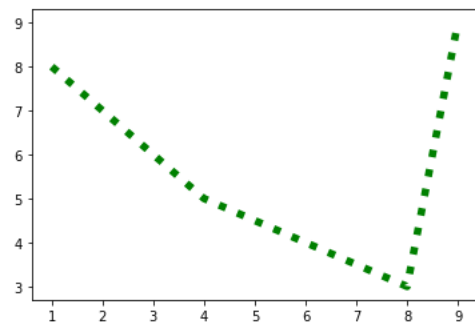
```
ypoint=np.array([6,9,3,5])
```

```
plt.plot(ypoint,marker='${U0001F601}$',ms=20,mec='y')
```

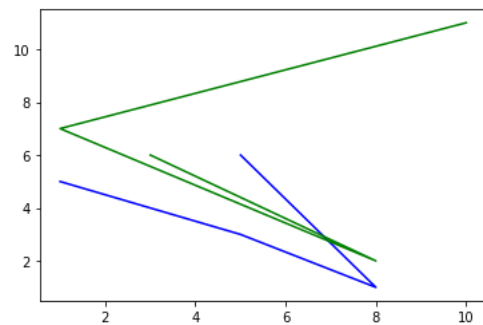
```
[<matplotlib.lines.Line2D at 0x7f84e5451a90>]
```



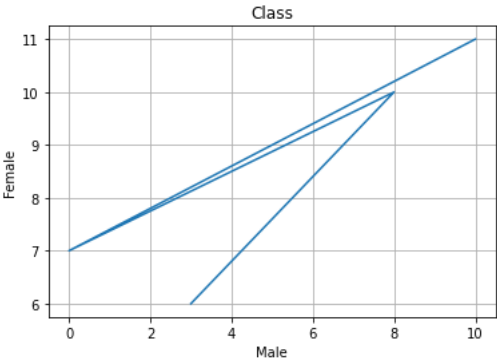
```
xpoint=np.array([1,4,8,9])
ypoint=np.array([8,5,3,9])
plt.plot(xpoint,ypoint,ls=':',color='g',lw=5.6)
plt.show()
```



```
xpoint=np.array([1,5,8,5])
ypoint=np.array([5,3,1,6])
y1 = np.array([3, 8, 1, 10])
y2 = np.array([6, 2, 7, 11])
plt.plot(xpoint, ypoint,color='b')
plt.plot(y1,y2,color='g')
plt.show()
```



```
y1 = np.array([3, 8, 0,10])
y2 = np.array([6, 10, 7, 11])
plt.title('Class')
plt.xlabel('Male')
plt.ylabel('Female')
plt.plot(y1,y2)
plt.grid()
plt.show()
```



[Colab paid products](#) - [Cancel contracts here](#)

