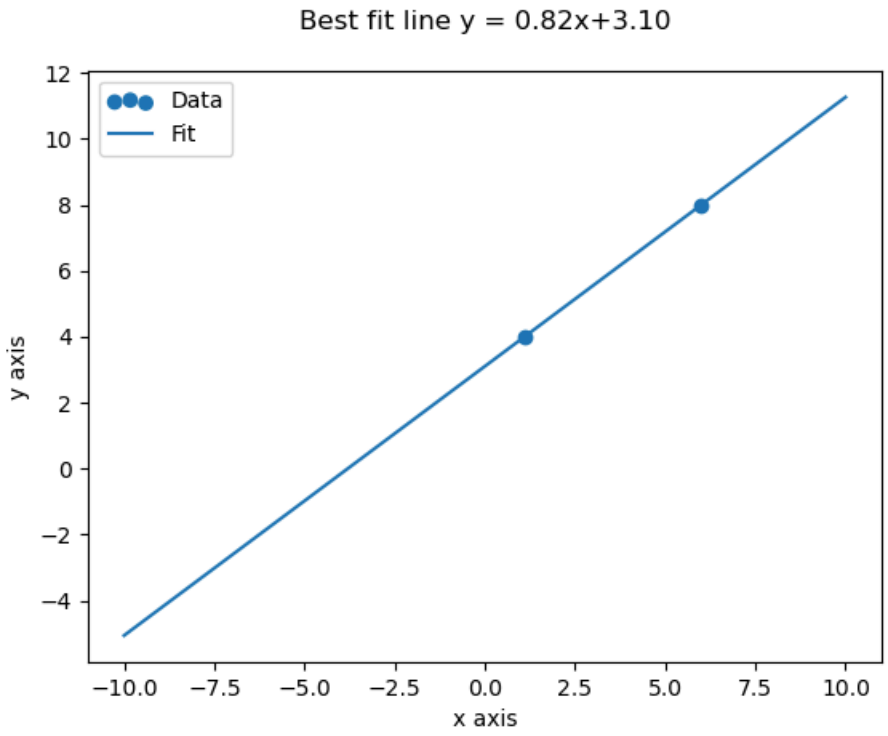
Lets plot two data points and fit a line to them

In [1]:
```
%matplotlib ipympl
import numpy as np
import matplotlib.pyplot as plt
```

In [2]:
```
#This is my data
x_data=np.array([1.1,6])
y_data=np.array([4,8.])


#this is my solution to the line
m=(y_data[1]-y_data[0])/(x_data[1]-x_data[0])
b=y_data[0]-x_data[0]*m

#This is the best fit line
x_fit=np.linspace(-10,10)
y_fit=m*x_fit+b

#this is plotting the data
fig,ax=plt.subplots()
ax.scatter(x_data,y_data,label='Data')   #this plots points without a line
ax.plot(x_fit,y_fit,label='Fit')
plot_title='Best fit line y = {:.2f}x+{:.2f}\n'.format(m,b)
ax.set_xlabel('x axis')
ax.set_ylabel('y axis')
ax.set_title(plot_title)
ax.legend(loc='best',scatterpoints=3)
```

Out[2]: <matplotlib.legend.Legend at 0x10925a910>

Figure



In [ ]: