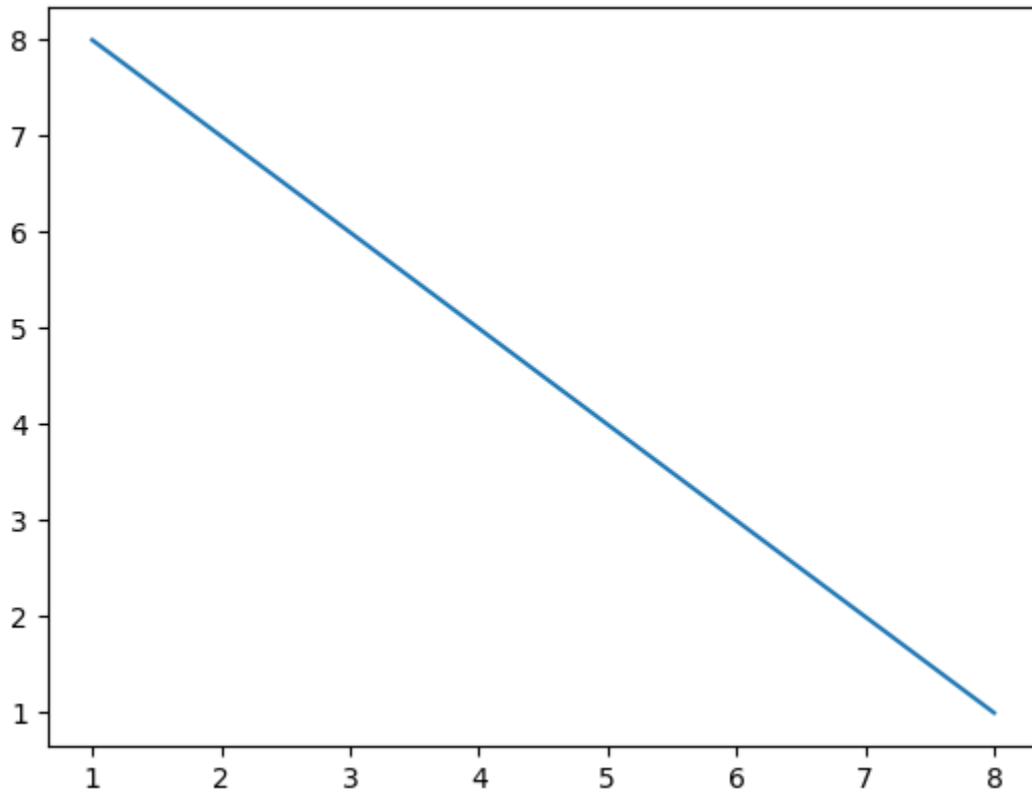


```
In [13]: import seaborn as sns
import matplotlib.pyplot as plt
import pandas as pd
```

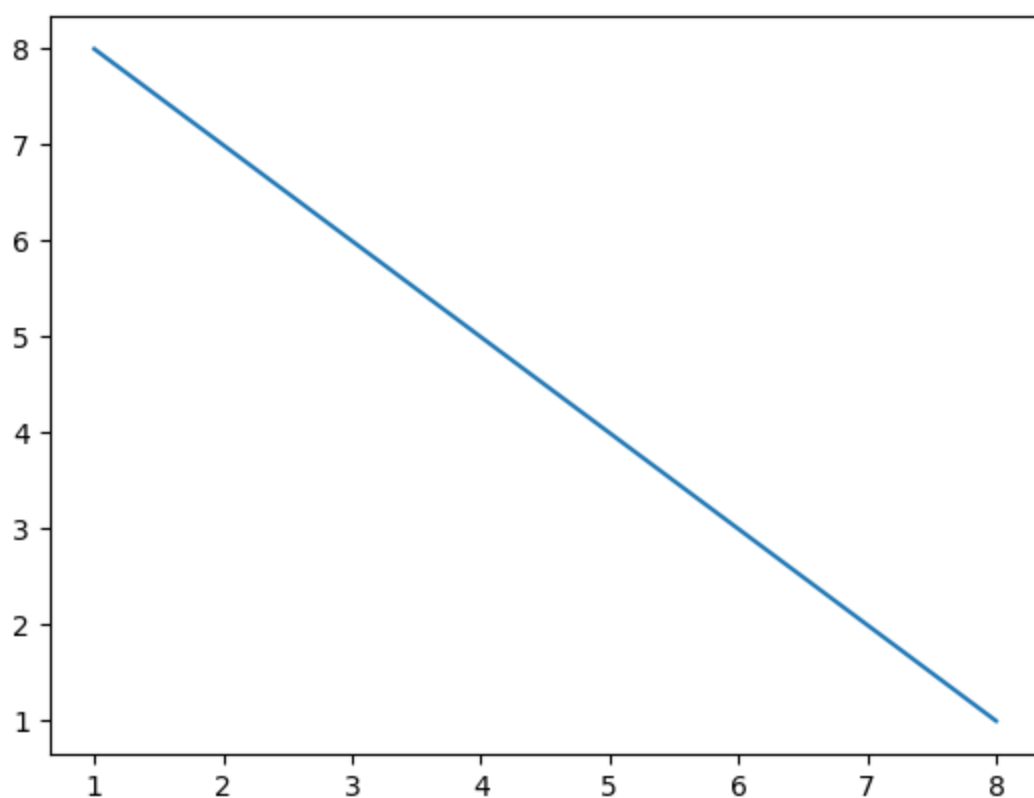
Seaborn is used for making statistical Graph in python

```
In [14]: var1=[1,2,3,4,5,6,7,8]
var2=[8,7,6,5,4,3,2,1]
plt.plot(var1,var2)
```

```
Out[14]: [<matplotlib.lines.Line2D at 0x293eec18050>]
```



```
In [15]: var1=[1,2,3,4,5,6,7,8]
var2=[8,7,6,5,4,3,2,1]
sns.lineplot(x=var1, y=var2)
plt.show()
```



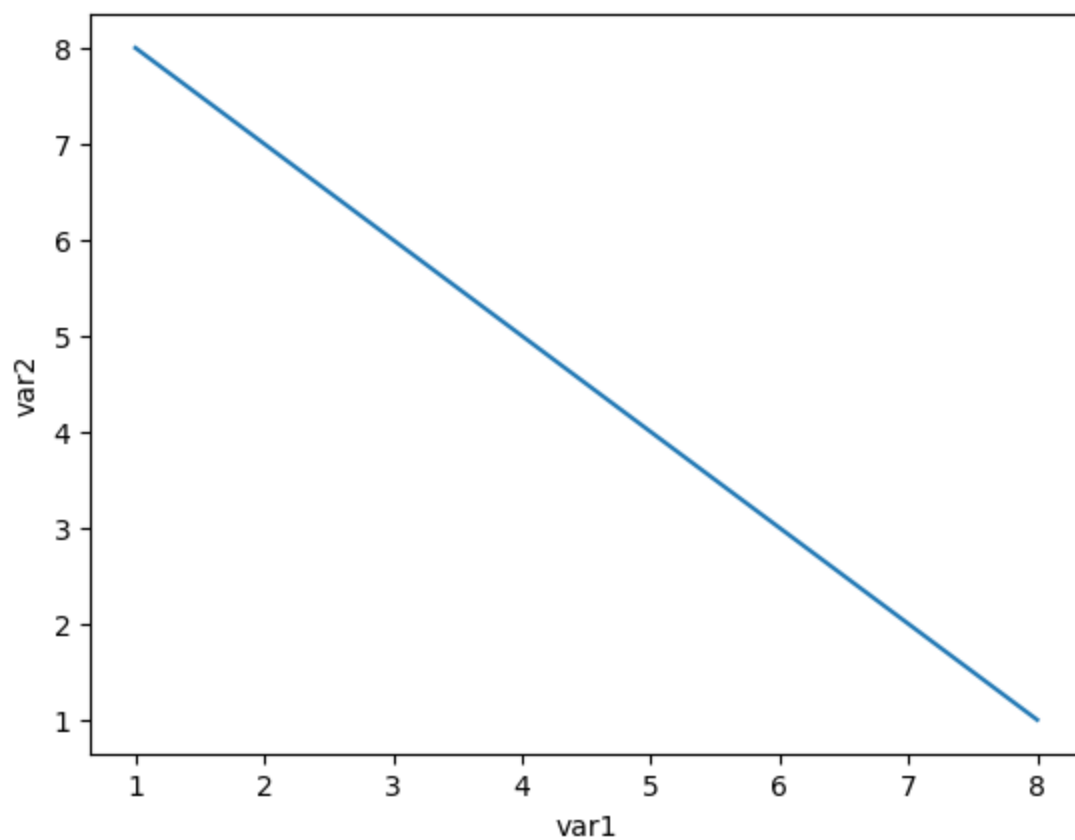
```
In [21]: df=pd.DataFrame({"var1":var1, "var2":var2})
df
```

```
Out[21]:
```

	var1	var2
0	1	8
1	2	7
2	3	6
3	4	5
4	5	4
5	6	3
6	7	2
7	8	1

```
In [22]: sns.lineplot(x='var1', y='var2', data=df)
```

```
Out[22]: <Axes: xlabel='var1', ylabel='var2'>
```



In [23]: df

Out[23]:

	var1	var2
--	------	------

0	1	8
1	2	7
2	3	6
3	4	5
4	5	4
5	6	3
6	7	2
7	8	1

In [24]: df1=pd.read_csv("penguins.csv")

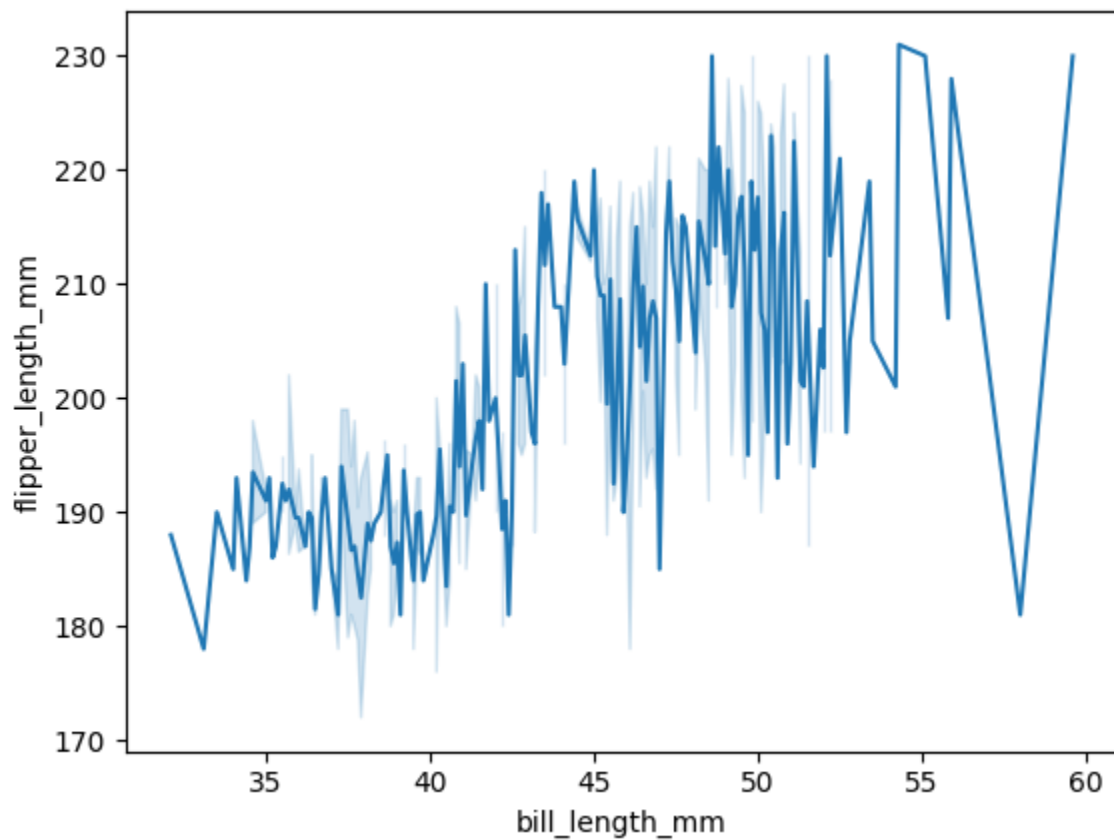
In [25]: df1

```
Out[25]:
```

	species	island	bill_length_mm	bill_depth_mm	flipper_length_mm	body
0	Adelie	Torgersen	39.1	18.7	181.0	
1	Adelie	Torgersen	39.5	17.4	186.0	
2	Adelie	Torgersen	40.3	18.0	195.0	
3	Adelie	Torgersen	NaN	NaN	NaN	
4	Adelie	Torgersen	36.7	19.3	193.0	
...	...	...	...	...	...	...
339	Gentoo	Biscoe	NaN	NaN	NaN	
340	Gentoo	Biscoe	46.8	14.3	215.0	
341	Gentoo	Biscoe	50.4	15.7	222.0	
342	Gentoo	Biscoe	45.2	14.8	212.0	
343	Gentoo	Biscoe	49.9	16.1	213.0	

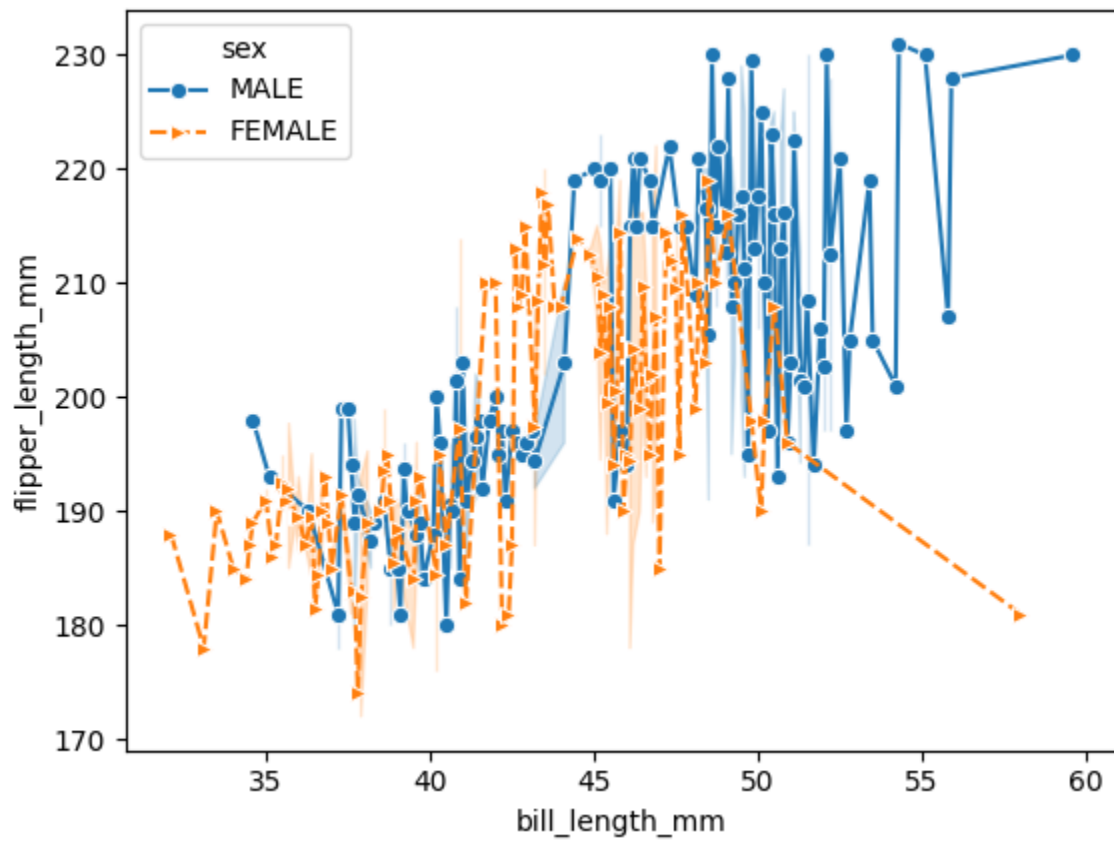
344 rows × 7 columns

```
In [36]: sns.lineplot(x='bill_length_mm',y='flipper_length_mm', data=df1)
plt.show()
```

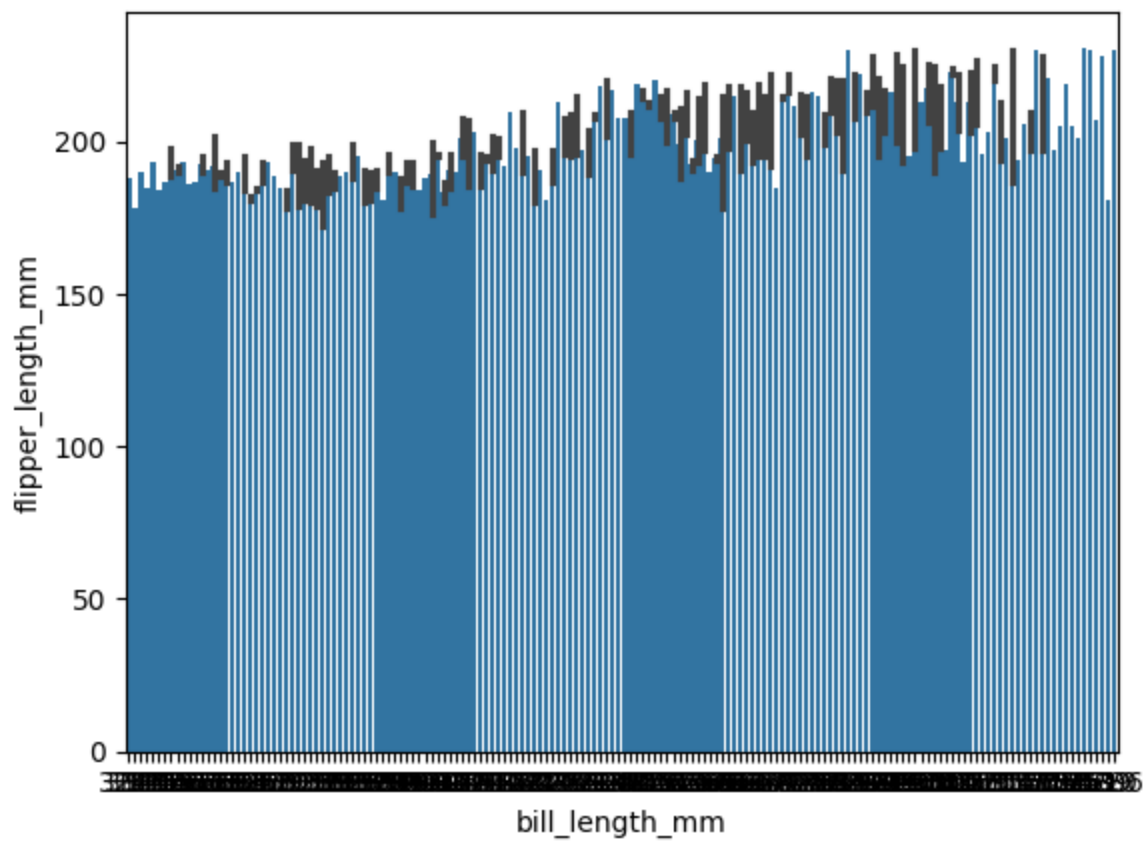


Hue used to__

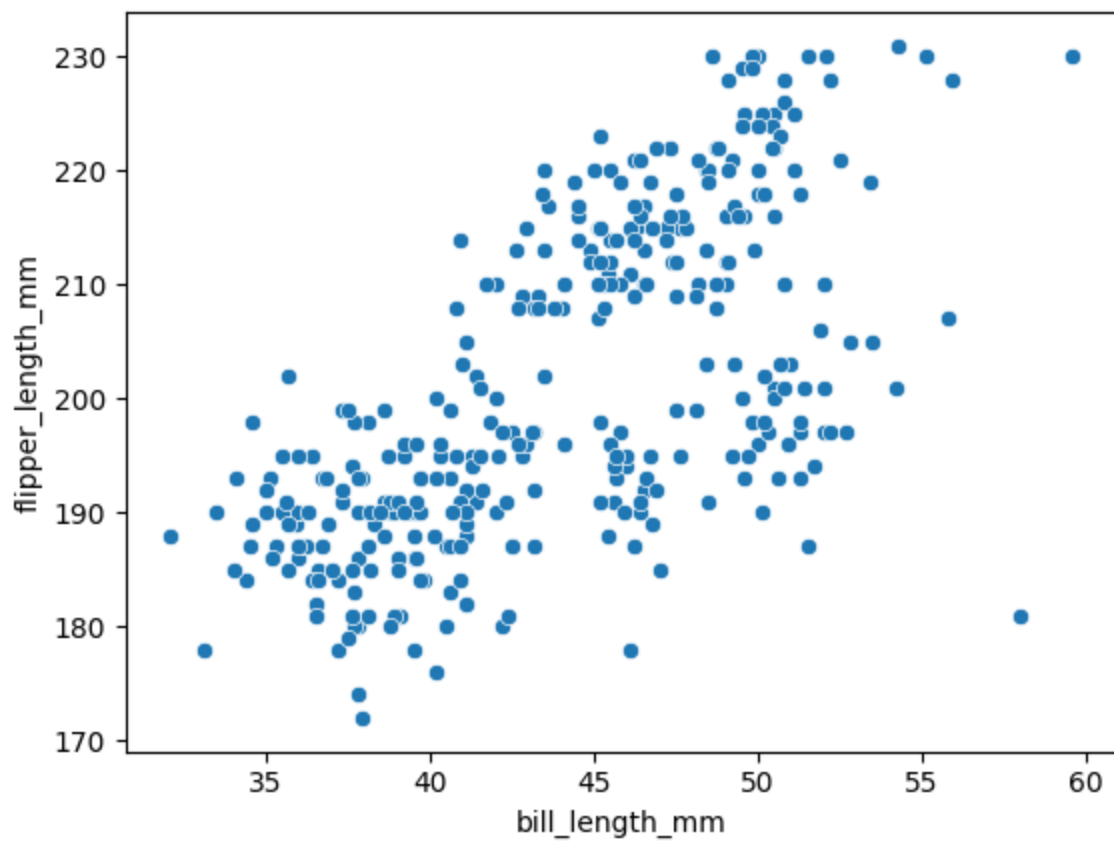
```
In [51]: sns.lineplot(x='bill_length_mm',y='flipper_length_mm', data=df1,hue='sex', style=
plt.show())
```



```
In [43]: sns.barplot(x='bill_length_mm',y='flipper_length_mm', data=df1)
plt.show()
```



```
In [44]: sns.scatterplot(x='bill_length_mm',y='flipper_length_mm', data=df1)
plt.show()
```

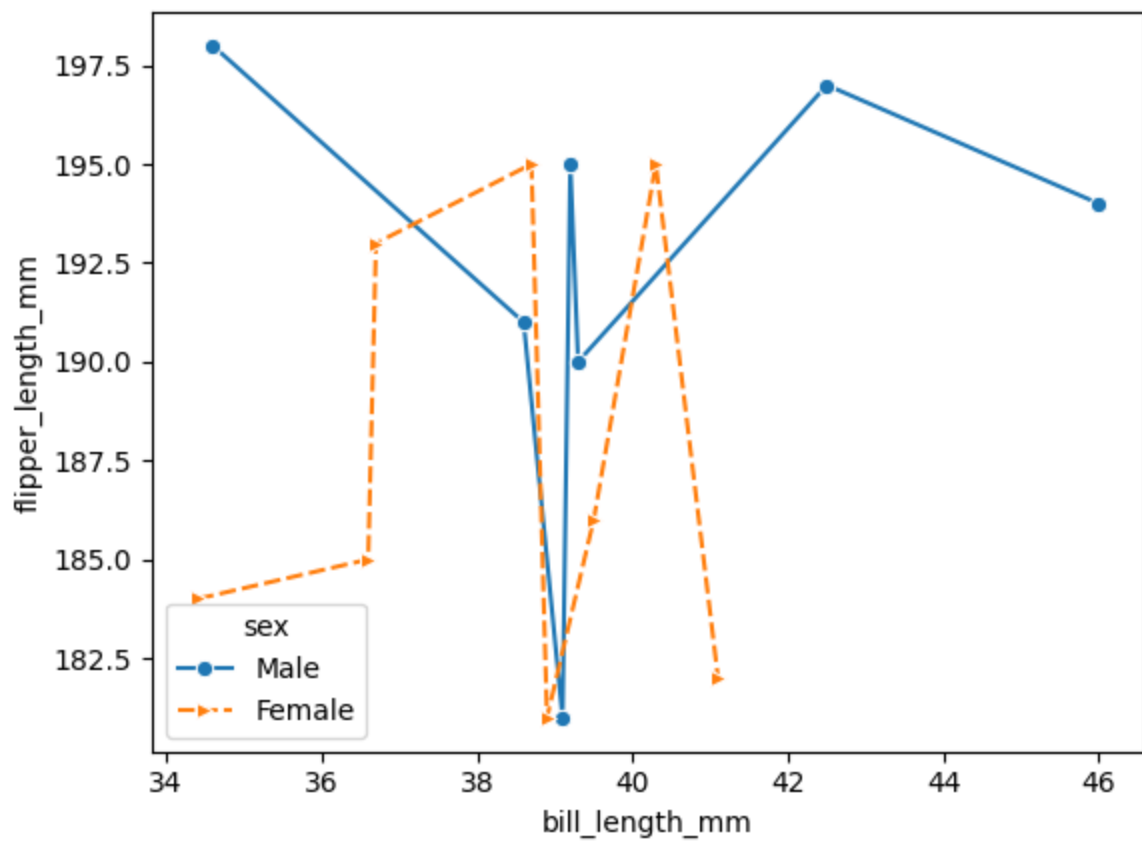


```
In [ ]: sns.lineplot(x='bill_length_mm',y='flipper_length_mm', data=df1,hue='sex', style=
plt.show())
```

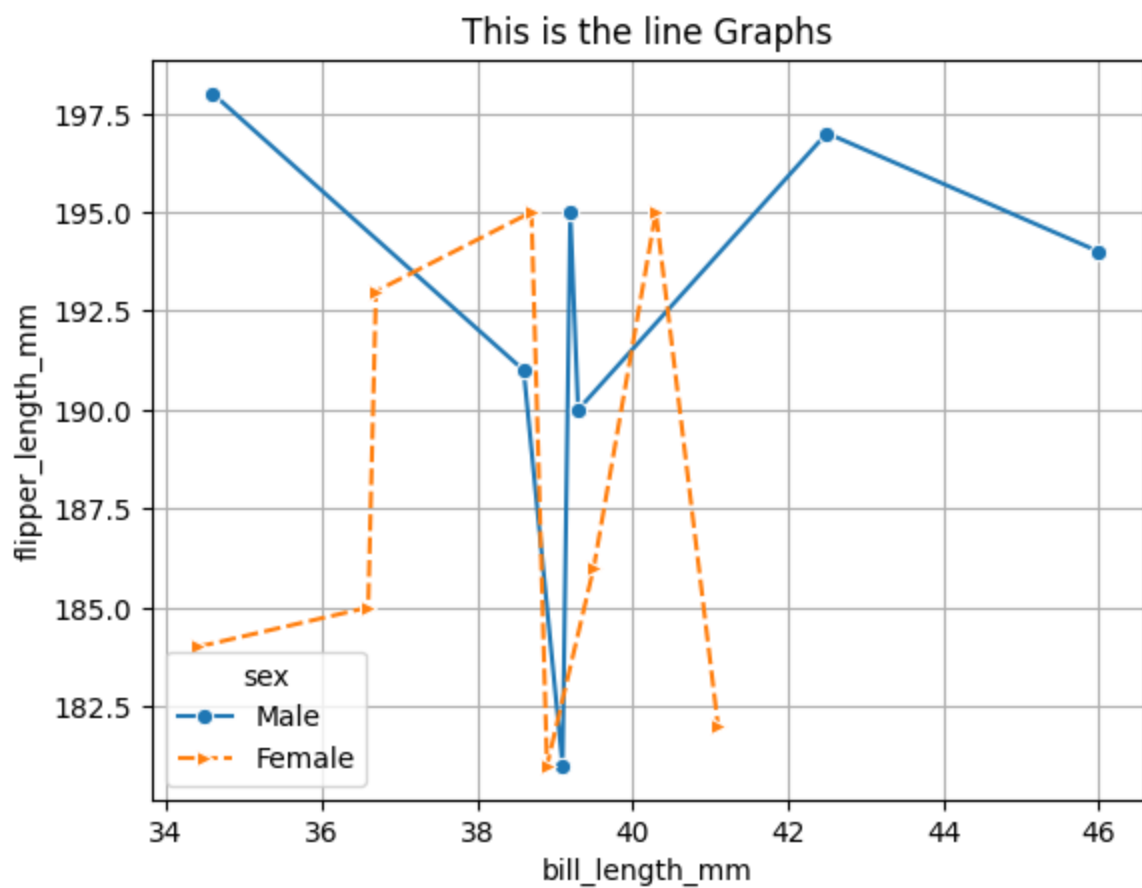
```
In [62]: df1=sns.load_dataset("penguins").head(20)
df1
```

Out[62]:		species	island	bill_length_mm	bill_depth_mm	flipper_length_mm	body_
	0	Adelie	Torgersen	39.1	18.7	181.0	
	1	Adelie	Torgersen	39.5	17.4	186.0	
	2	Adelie	Torgersen	40.3	18.0	195.0	
	3	Adelie	Torgersen	NaN	NaN	NaN	
	4	Adelie	Torgersen	36.7	19.3	193.0	
	5	Adelie	Torgersen	39.3	20.6	190.0	
	6	Adelie	Torgersen	38.9	17.8	181.0	
	7	Adelie	Torgersen	39.2	19.6	195.0	
	8	Adelie	Torgersen	34.1	18.1	193.0	
	9	Adelie	Torgersen	42.0	20.2	190.0	
	10	Adelie	Torgersen	37.8	17.1	186.0	
	11	Adelie	Torgersen	37.8	17.3	180.0	
	12	Adelie	Torgersen	41.1	17.6	182.0	
	13	Adelie	Torgersen	38.6	21.2	191.0	
	14	Adelie	Torgersen	34.6	21.1	198.0	
	15	Adelie	Torgersen	36.6	17.8	185.0	
	16	Adelie	Torgersen	38.7	19.0	195.0	
	17	Adelie	Torgersen	42.5	20.7	197.0	
	18	Adelie	Torgersen	34.4	18.4	184.0	
	19	Adelie	Torgersen	46.0	21.5	194.0	

```
In [63]: sns.lineplot(x='bill_length_mm',y='flipper_length_mm', data=df1,hue='sex', sty
plt.show())
```



```
In [68]: sns.lineplot(x='bill_length_mm',y='flipper_length_mm', data=df1,hue='sex', style='sex')
plt.title("This is the line Graphs")
plt.grid()
plt.show()
```



```
In [ ]: sns.lineplot(x='bill_length_mm',y='flipper_length_mm', data=df1,hue='sex', sty
plt.title("This is the line Graphs")
plt.grid()
plt.show()
```