

```
In [1]: import seaborn as sns
```

```
In [2]: iris = sns.load_dataset("iris")
```

```
In [3]: iris
```

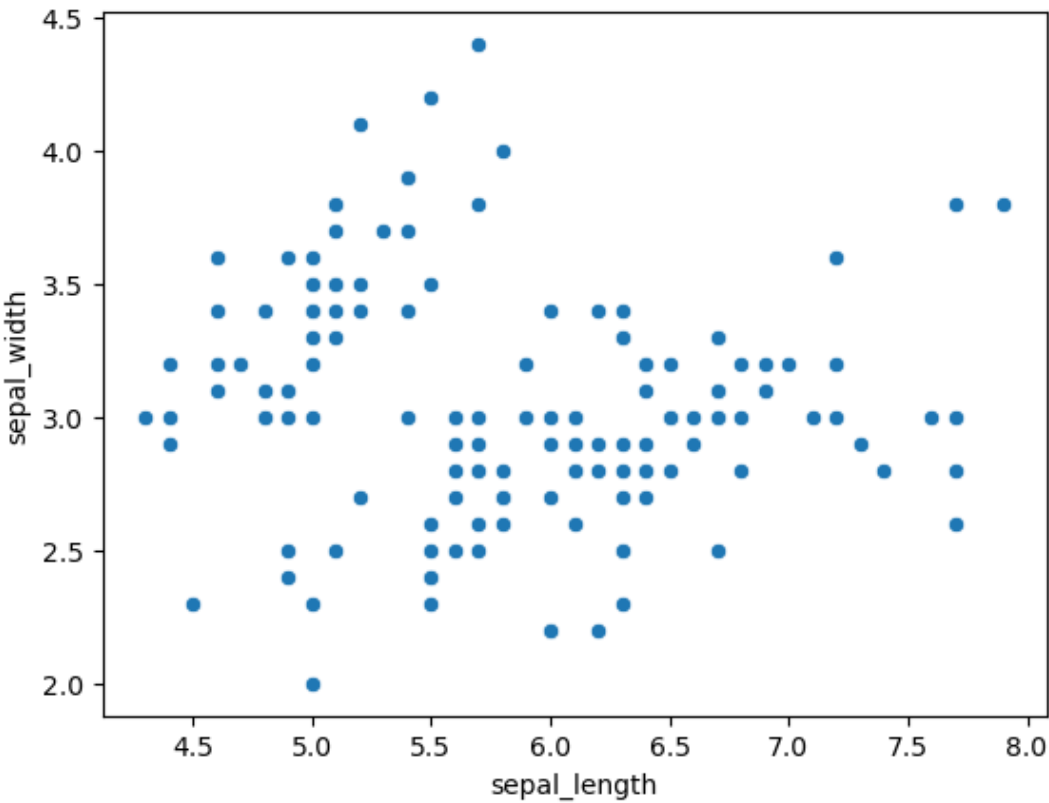
Out[3]:

	sepal_length	sepal_width	petal_length	petal_width	species
0	5.1	3.5	1.4	0.2	setosa
1	4.9	3.0	1.4	0.2	setosa
2	4.7	3.2	1.3	0.2	setosa
3	4.6	3.1	1.5	0.2	setosa
4	5.0	3.6	1.4	0.2	setosa
...
145	6.7	3.0	5.2	2.3	virginica
146	6.3	2.5	5.0	1.9	virginica
147	6.5	3.0	5.2	2.0	virginica
148	6.2	3.4	5.4	2.3	virginica
149	5.9	3.0	5.1	1.8	virginica

150 rows × 5 columns

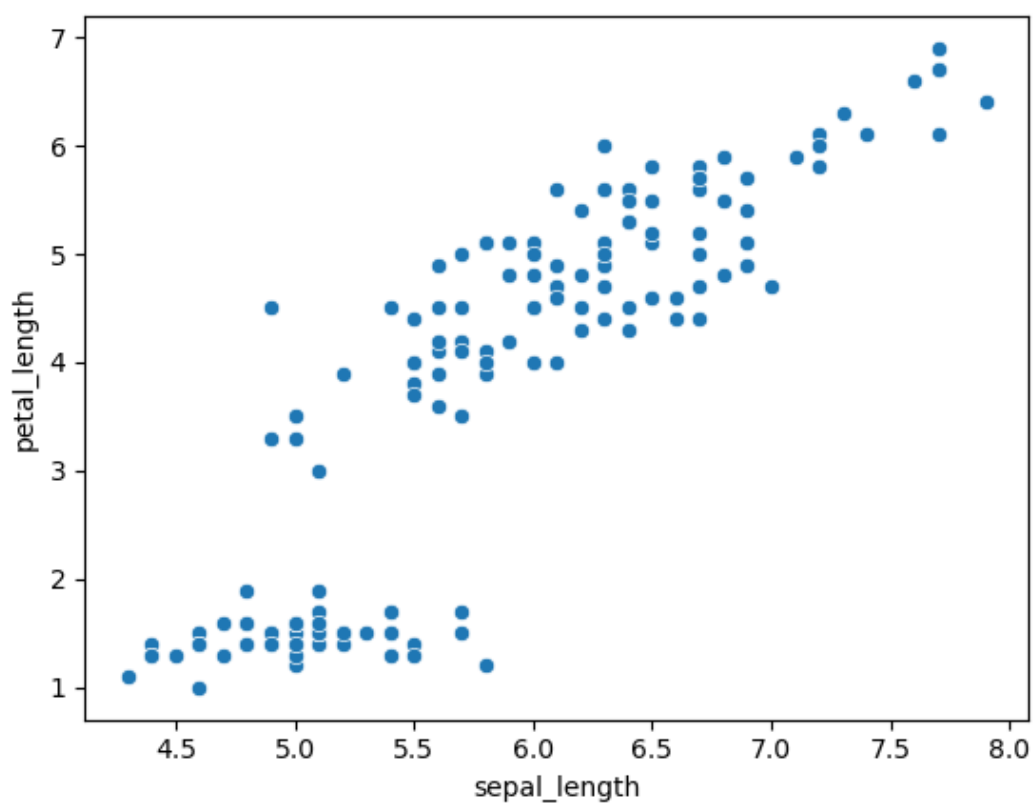
```
In [4]: sns.scatterplot(x = iris.sepal_length , y = iris.sepal_width)
```

Out[4]: <AxesSubplot: xlabel='sepal_length', ylabel='sepal_width'>



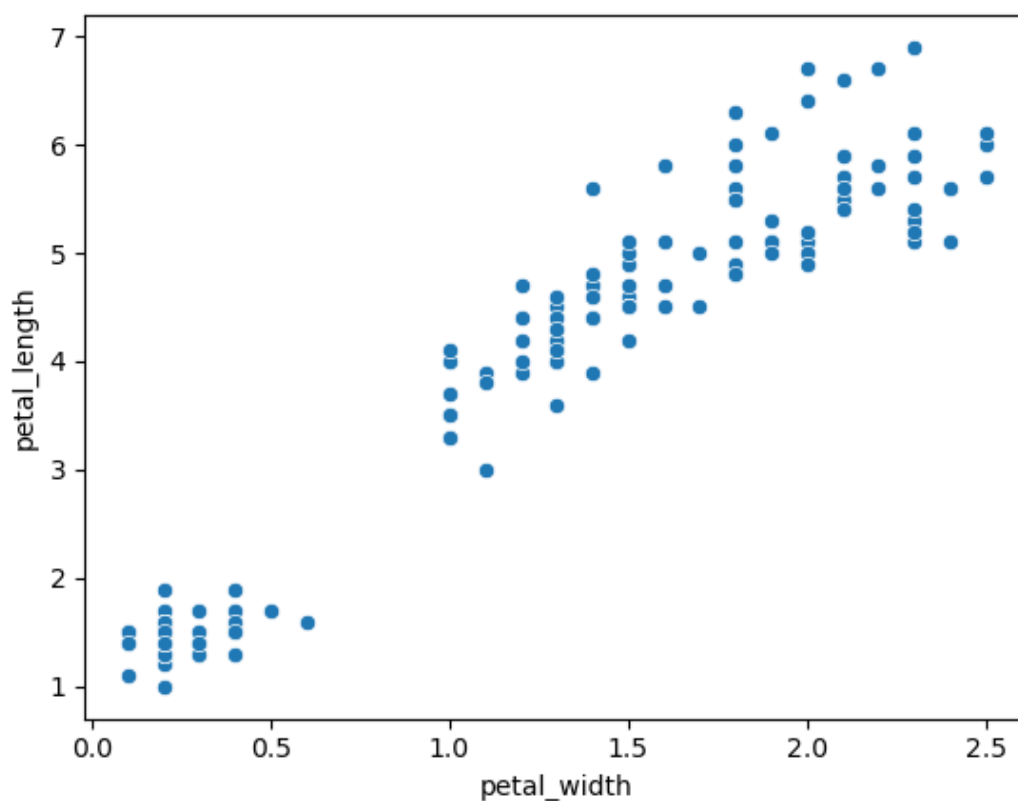
```
In [5]: sns.scatterplot(x = iris.sepal_length , y = iris.petal_length)
```

```
Out[5]: <AxesSubplot: xlabel='sepal_length', ylabel='petal_length'>
```



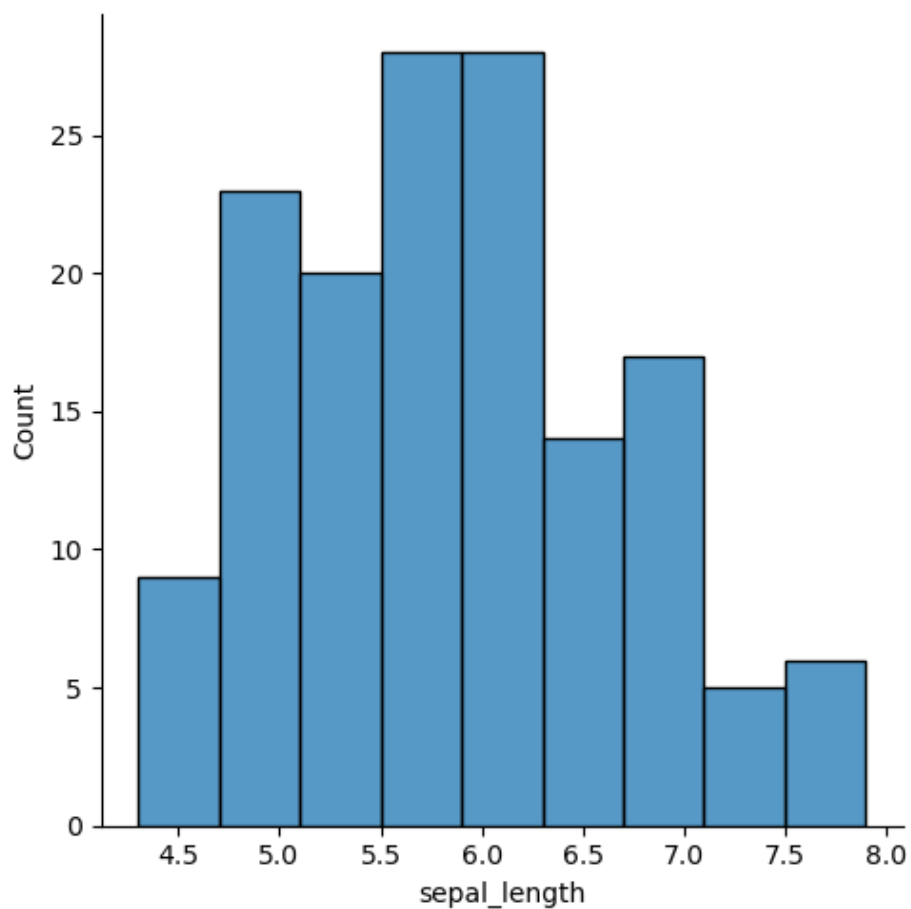
```
In [6]: sns.scatterplot(x = iris.petal_width , y = iris.petal_length)
```

```
Out[6]: <AxesSubplot: xlabel='petal_width', ylabel='petal_length'>
```



```
In [7]: sns.displot(iris["sepal_length"])
```

```
Out[7]: <seaborn.axisgrid.FacetGrid at 0x7f744ddb2680>
```



```
In [8]: tips = sns.load_dataset("tips")
```

```
In [9]: tips
```

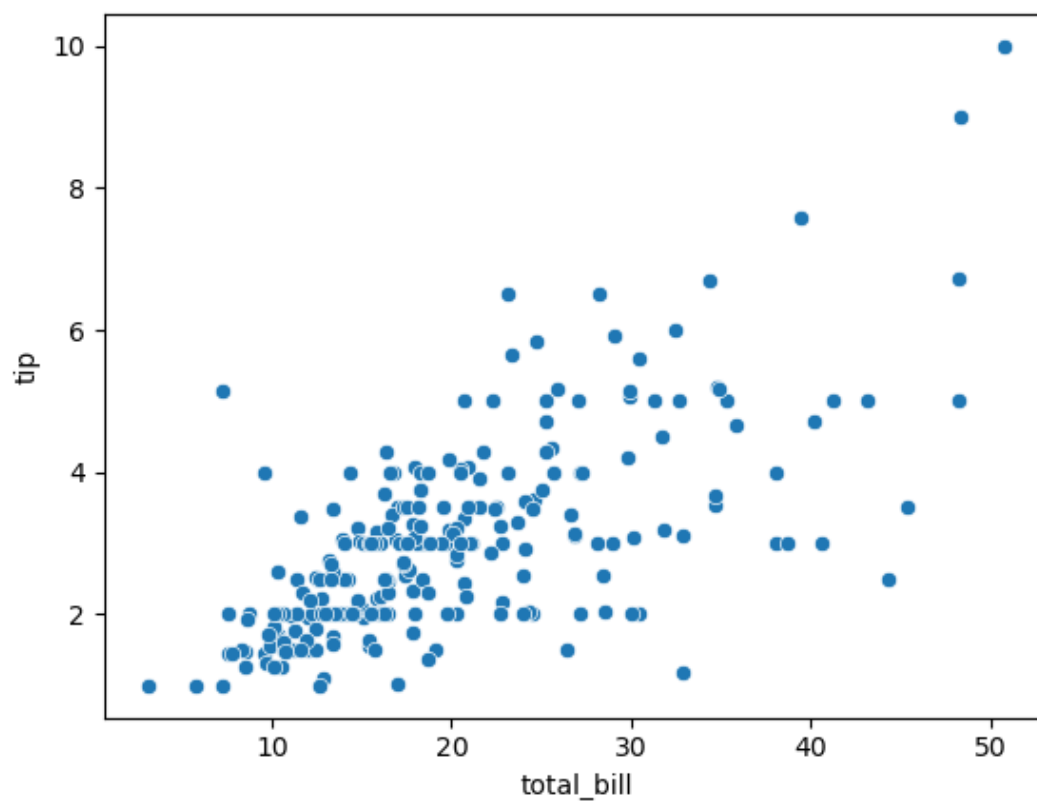
```
Out[9]:
```

	total_bill	tip	sex	smoker	day	time	size
0	16.99	1.01	Female	No	Sun	Dinner	2
1	10.34	1.66	Male	No	Sun	Dinner	3
2	21.01	3.50	Male	No	Sun	Dinner	3
3	23.68	3.31	Male	No	Sun	Dinner	2
4	24.59	3.61	Female	No	Sun	Dinner	4
...
239	29.03	5.92	Male	No	Sat	Dinner	3
240	27.18	2.00	Female	Yes	Sat	Dinner	2
241	22.67	2.00	Male	Yes	Sat	Dinner	2
242	17.82	1.75	Male	No	Sat	Dinner	2
243	18.78	3.00	Female	No	Thur	Dinner	2

244 rows × 7 columns

```
In [10]: sns.scatterplot(x =tips.total_bill , y = tips.tip)
```

```
Out[10]: <AxesSubplot: xlabel='total_bill', ylabel='tip'>
```



```
In [11]: tips.head()
```

```
Out[11]:
```

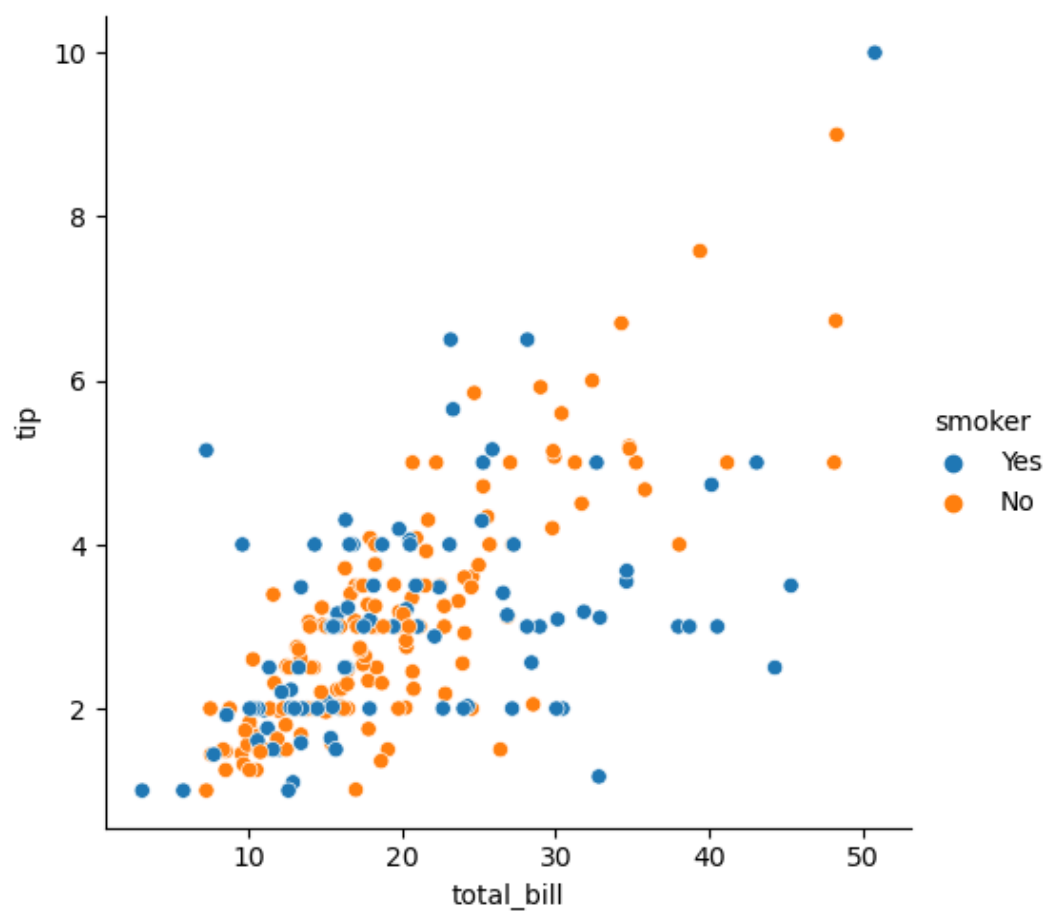
	total_bill	tip	sex	smoker	day	time	size
0	16.99	1.01	Female	No	Sun	Dinner	2
1	10.34	1.66	Male	No	Sun	Dinner	3
2	21.01	3.50	Male	No	Sun	Dinner	3
3	23.68	3.31	Male	No	Sun	Dinner	2
4	24.59	3.61	Female	No	Sun	Dinner	4

```
In [13]: tips['smoker'].value_counts()
```

```
Out[13]: No      151
Yes       93
Name: smoker, dtype: int64
```

```
In [15]: sns.relplot(x=tips.total_bill, y=tips.tip, data=tips, hue='smoker')
```

```
Out[15]: <seaborn.axisgrid.FacetGrid at 0x7f744ddb2440>
```



```
In [16]: tips.head()
```

```
Out[16]:
```

	total_bill	tip	sex	smoker	day	time	size
0	16.99	1.01	Female	No	Sun	Dinner	2
1	10.34	1.66	Male	No	Sun	Dinner	3
2	21.01	3.50	Male	No	Sun	Dinner	3
3	23.68	3.31	Male	No	Sun	Dinner	2
4	24.59	3.61	Female	No	Sun	Dinner	4

```
In [17]: tips['size'].value_counts()
```

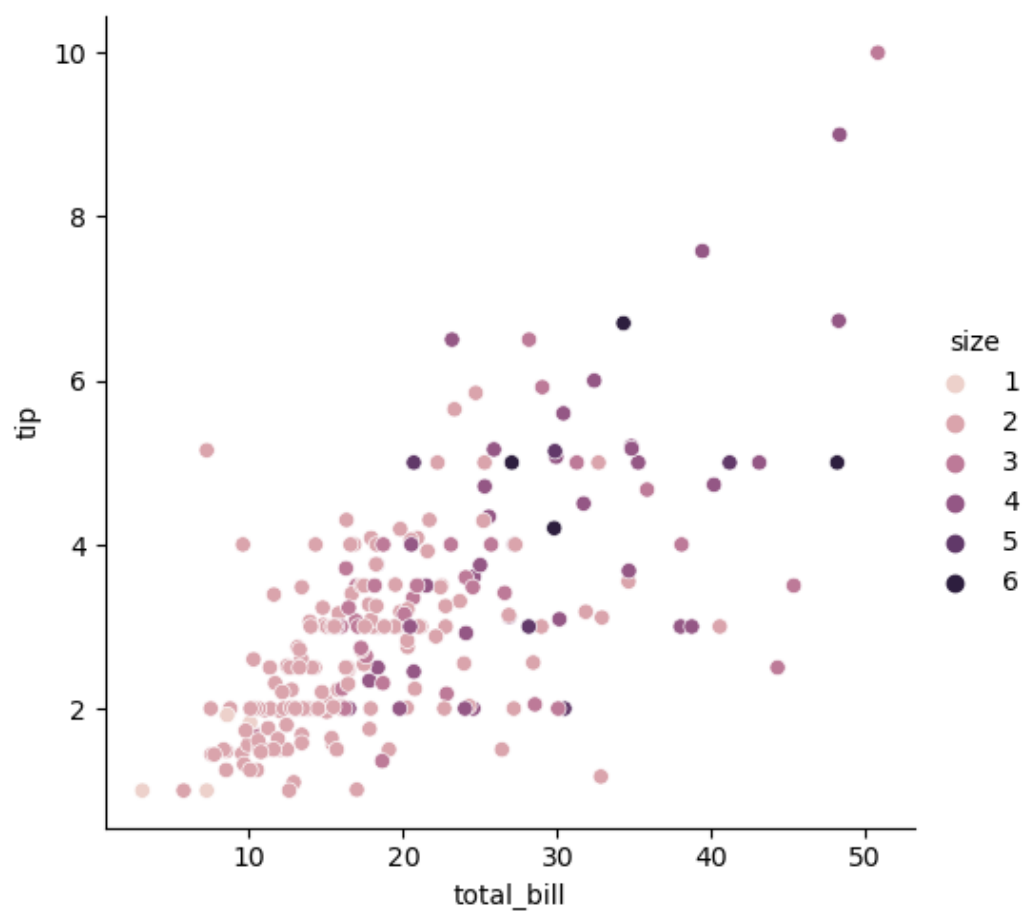
```
Out[17]:
```

2	156
3	38
4	37
5	5
1	4
6	4

Name: size, dtype: int64

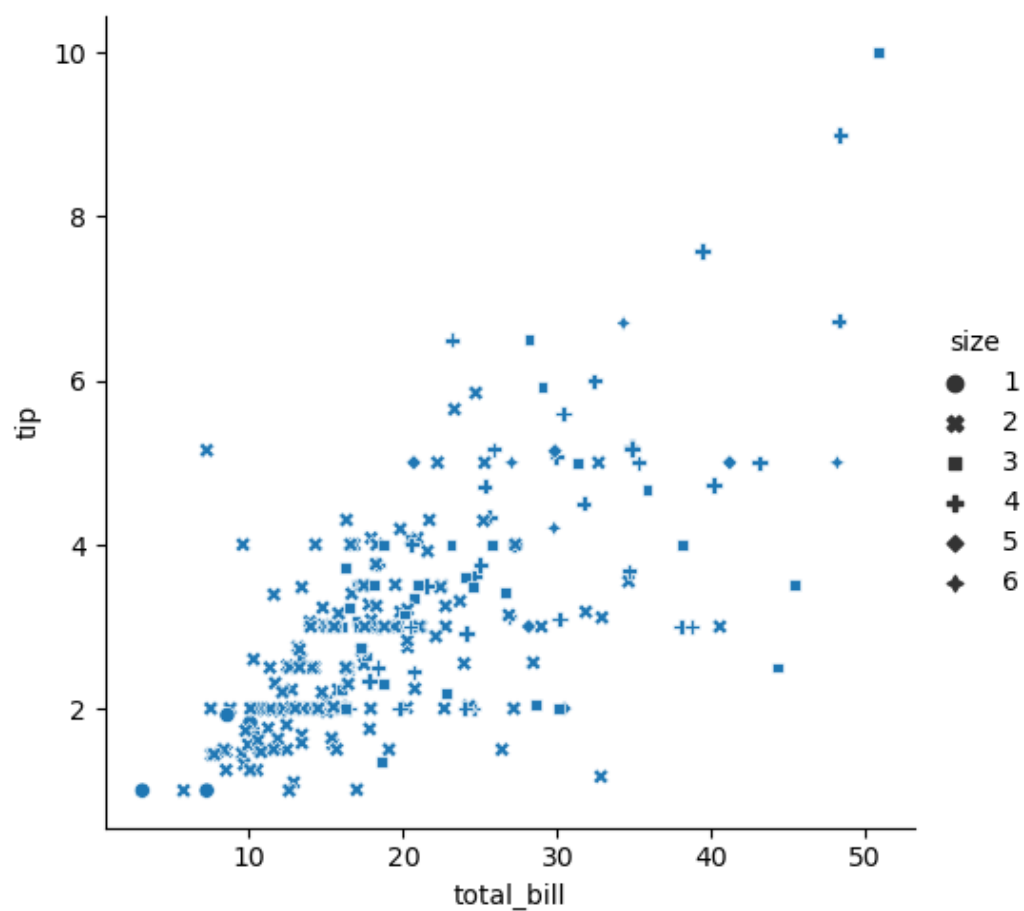
```
In [18]: sns.relplot(x=tips.total_bill , y = tips.tip , data = tips , hue = 'size')
```

```
Out[18]: <seaborn.axisgrid.FacetGrid at 0x7f744d4f3460>
```



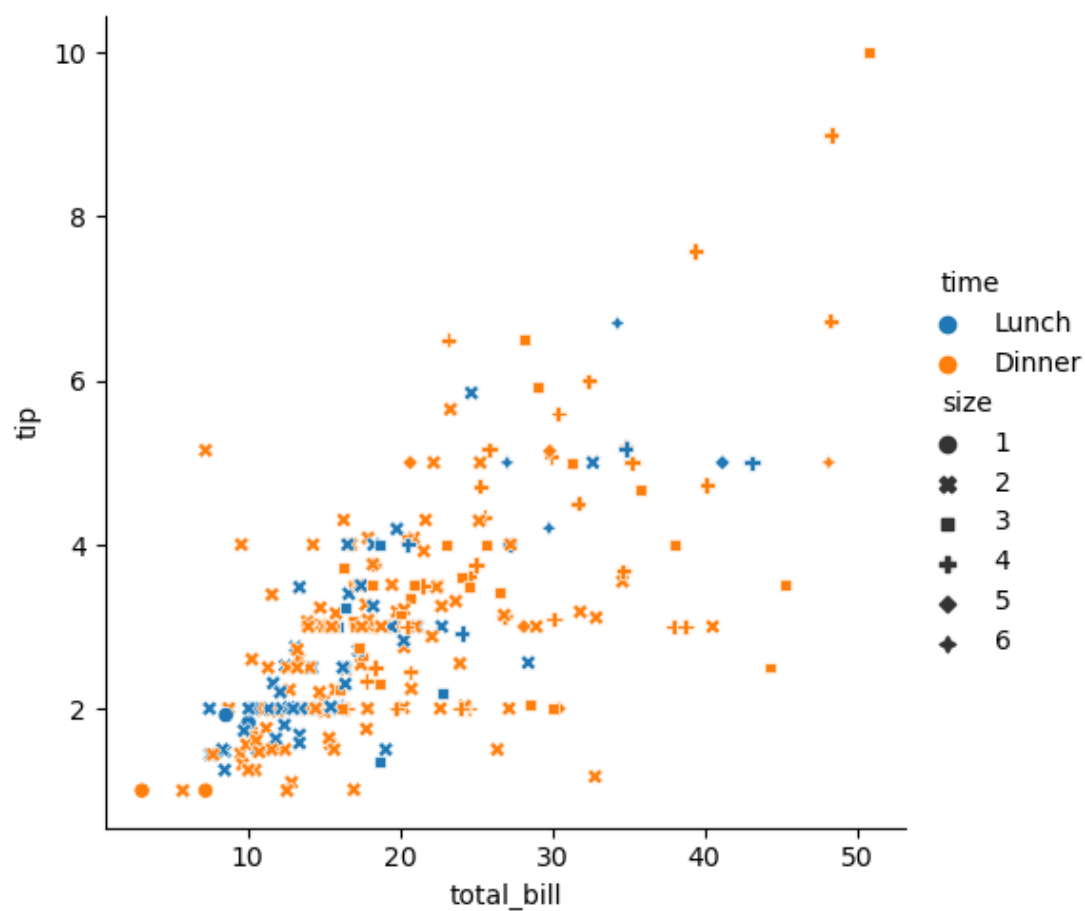
```
In [19]: sns.relplot(x = tips.total_bill , y = tips.tip , data = tips , style = 'size')
```

```
Out[19]: <seaborn.axisgrid.FacetGrid at 0x7f744dc6b160>
```



```
In [20]: sns.relplot(x = tips.total_bill , y = tips.tip , data = tips , style = 'size', hue = 'time')
```

```
Out[20]: <seaborn.axisgrid.FacetGrid at 0x7f744d40e9b0>
```



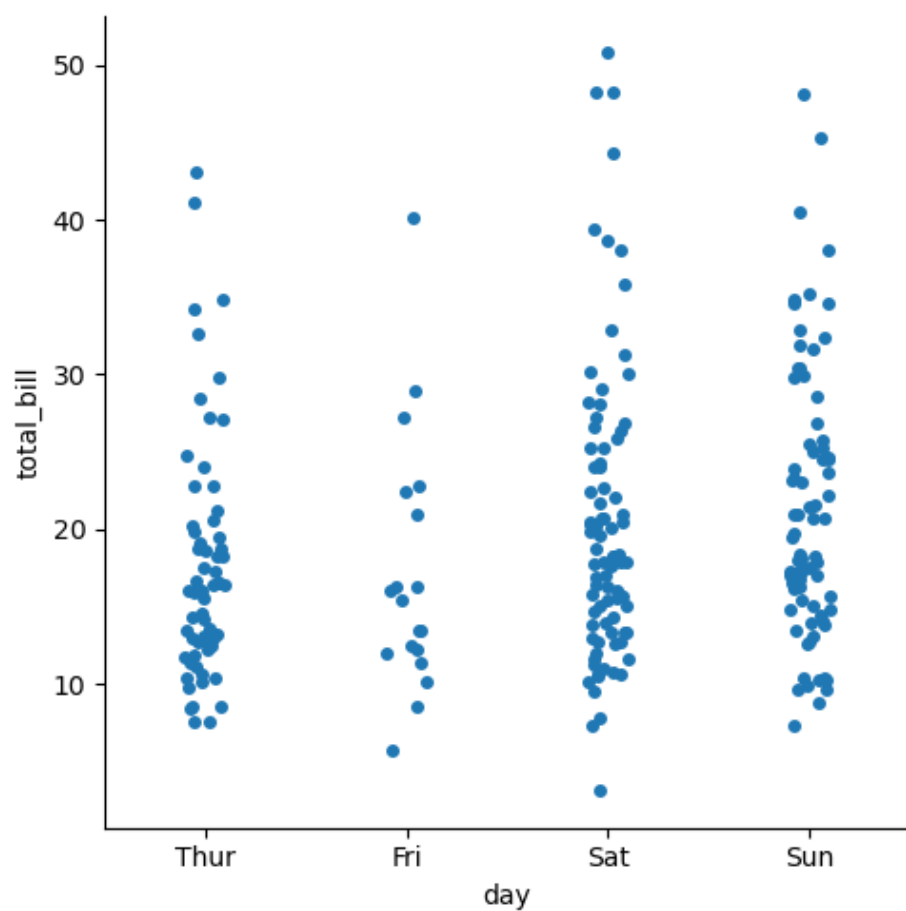
```
In [22]: tips.head()
```

```
Out[22]:
```

	total_bill	tip	sex	smoker	day	time	size
0	16.99	1.01	Female	No	Sun	Dinner	2
1	10.34	1.66	Male	No	Sun	Dinner	3
2	21.01	3.50	Male	No	Sun	Dinner	3
3	23.68	3.31	Male	No	Sun	Dinner	2
4	24.59	3.61	Female	No	Sun	Dinner	4

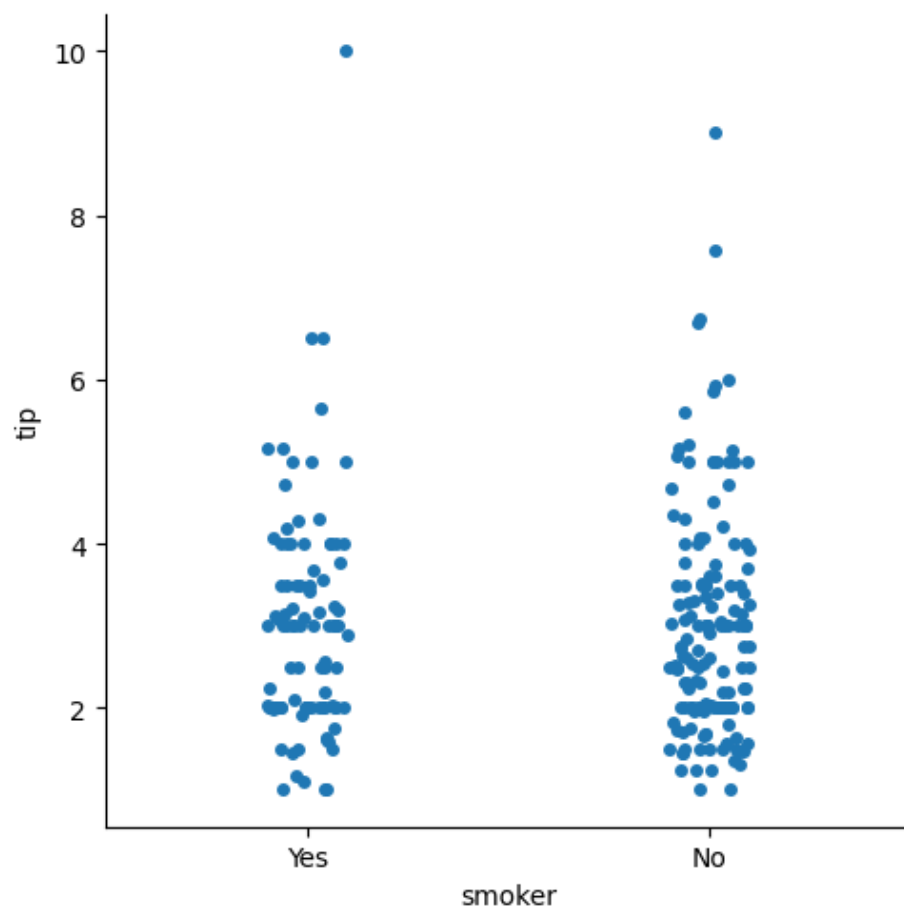

```
In [23]: sns.catplot(x = "day" ,y = "total_bill" , data = tips)
```

```
Out[23]: <seaborn.axisgrid.FacetGrid at 0x7f744d2f3c10>
```



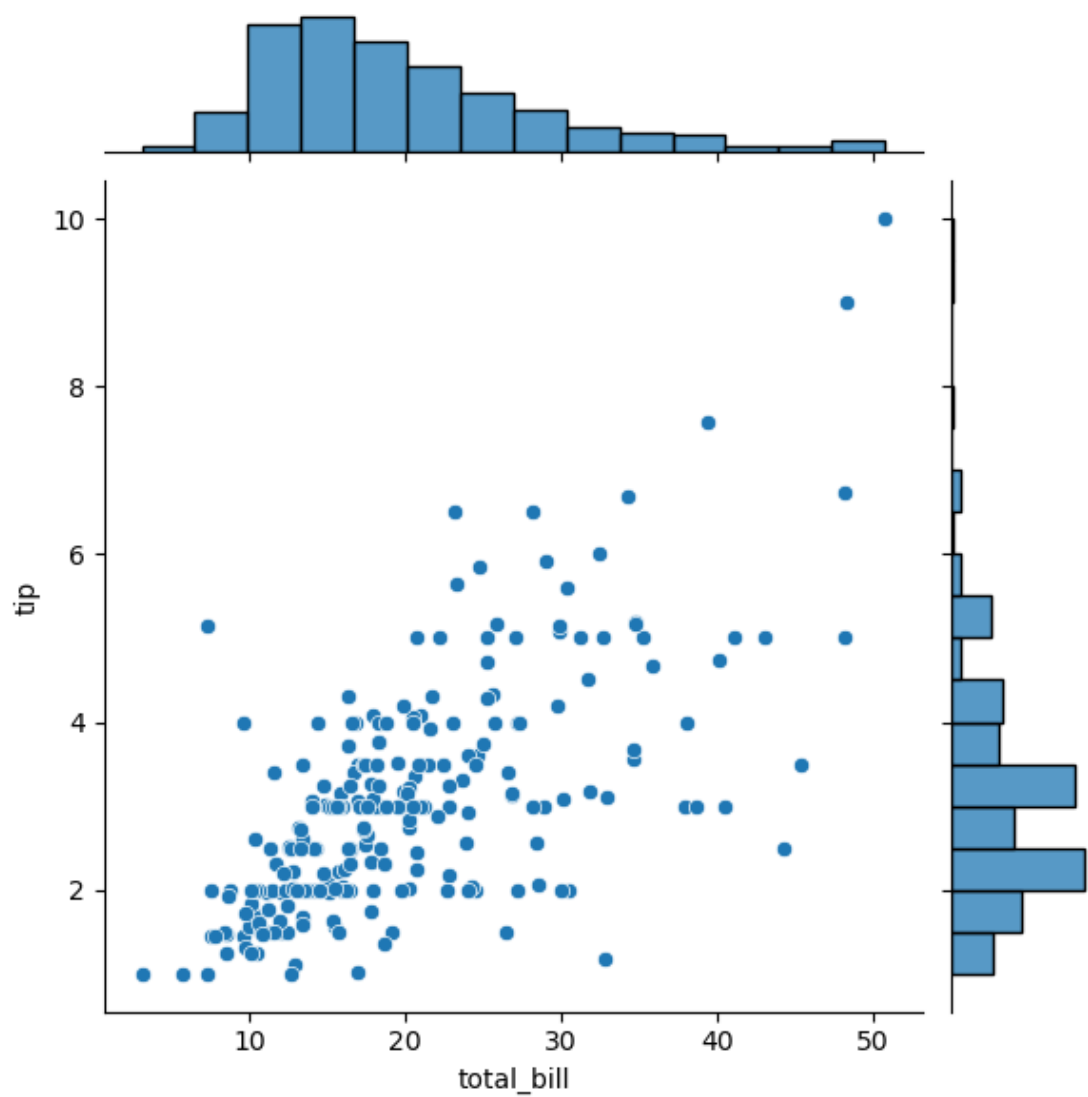
```
In [24]: sns.catplot(x = "smoker" ,y = "tip" , data = tips)
```

```
Out[24]: <seaborn.axisgrid.FacetGrid at 0x7f744d181180>
```



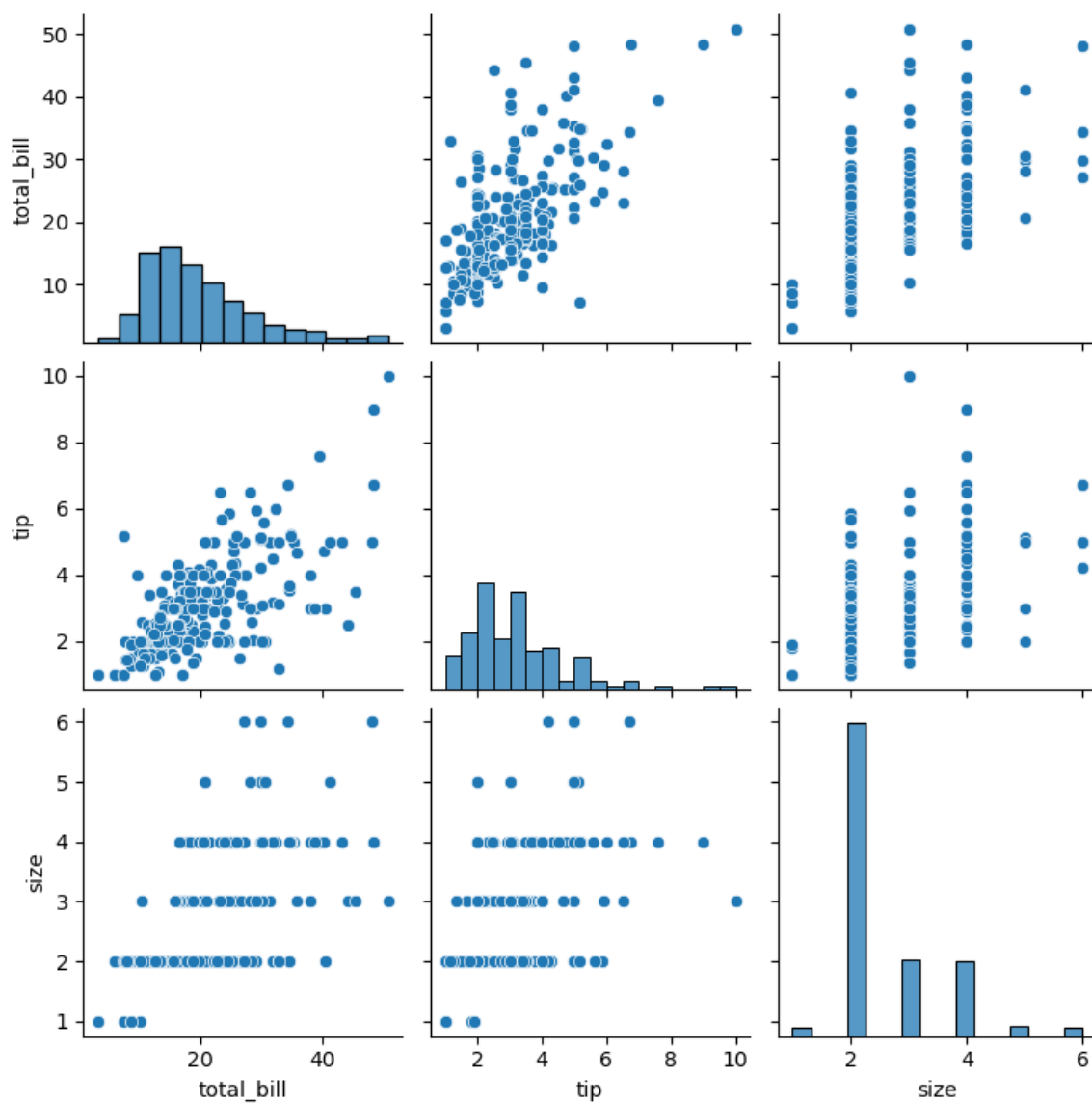
```
In [25]: sns.jointplot(x = tips.total_bill , y = tips.tip)
```

```
Out[25]: <seaborn.axisgrid.JointGrid at 0x7f744d1801c0>
```



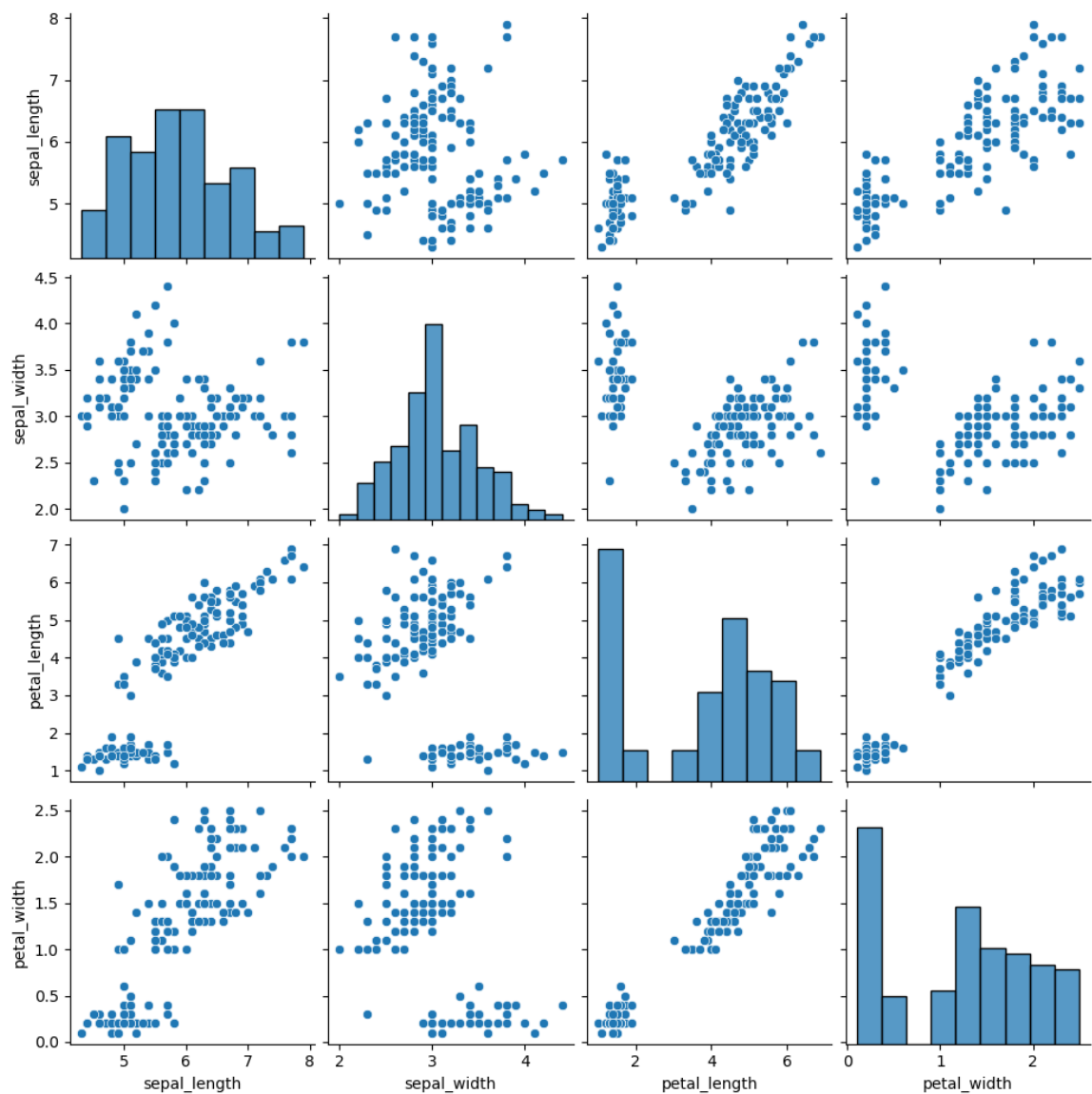
```
In [26]: sns.pairplot(tips)
```

```
Out[26]: <seaborn.axisgrid.PairGrid at 0x7f744bb9c5b0>
```



```
In [27]: sns.pairplot(iris)
```

```
Out[27]: <seaborn.axisgrid.PairGrid at 0x7f744b5a4a90>
```



```
In [ ]:
```