

```
In [1]: import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
```

```
In [2]: t1=sns.load_dataset('tips')
t1
```

Out[2]:

	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

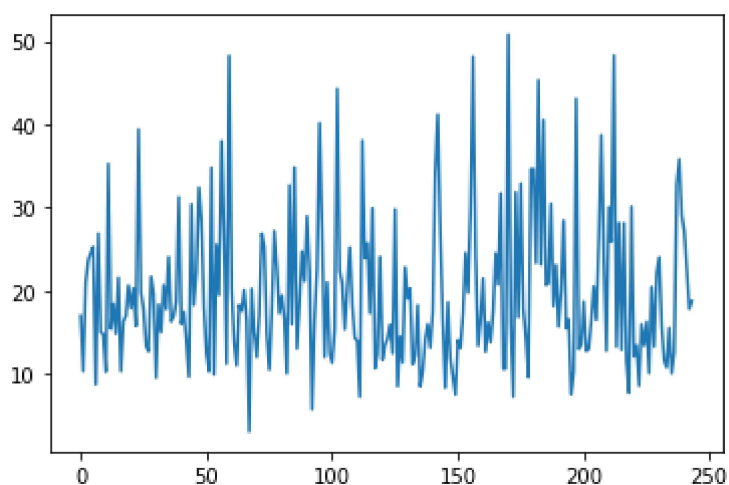
```
In [3]: t1.head()
```

Out[3]:

	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

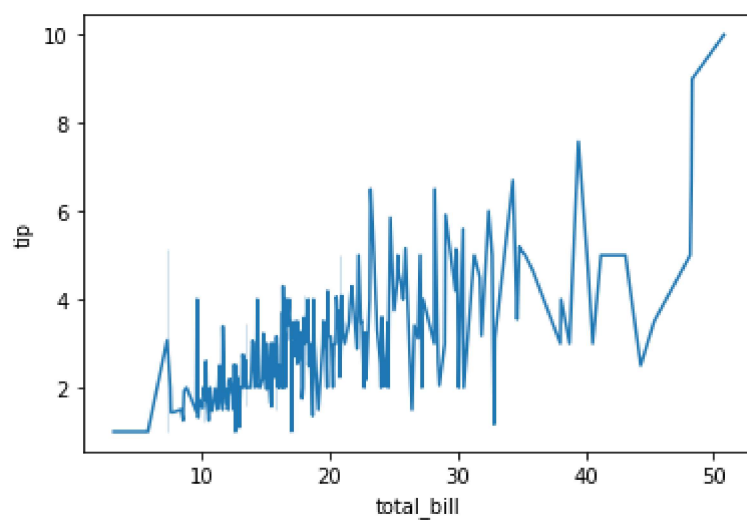
```
In [4]: plt.plot(t1['total_bill'],)
```

```
Out[4]: [<matplotlib.lines.Line2D at 0x2c6a615ec70>]
```



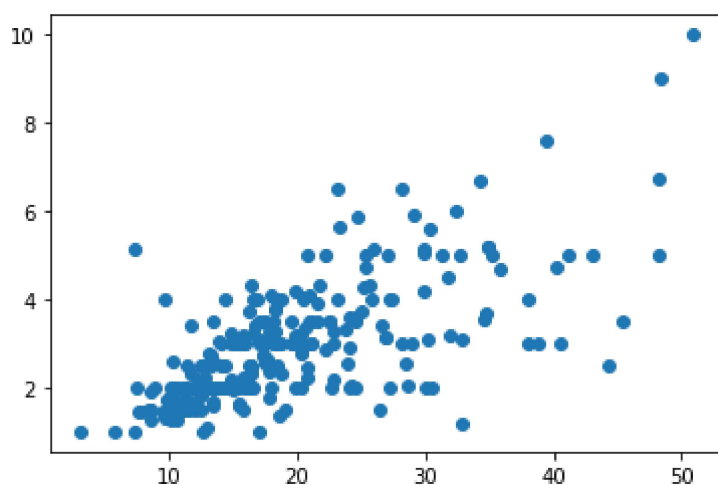
```
In [5]: sns.lineplot(x='total_bill',y='tip',data=t1,)
```

```
Out[5]: <AxesSubplot:xlabel='total_bill', ylabel='tip'>
```



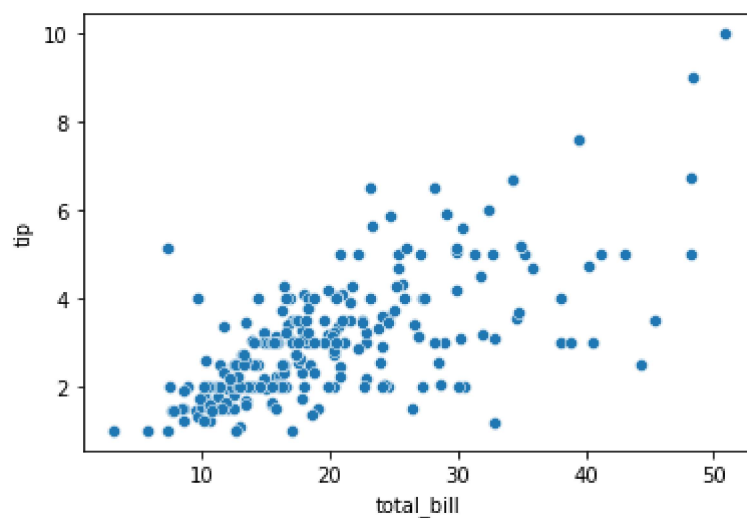
```
In [6]: plt.scatter(x='total_bill',y='tip',data=t1)
```

```
Out[6]: <matplotlib.collections.PathCollection at 0x2c6a6997880>
```



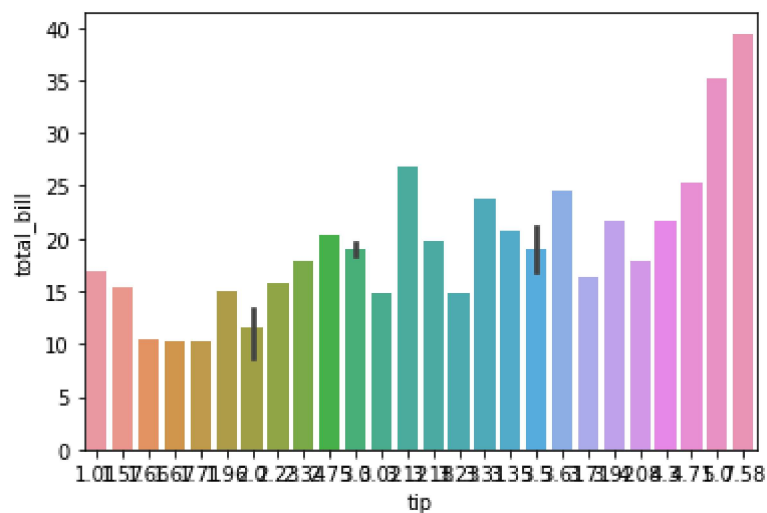
```
In [7]: sns.scatterplot(x='total_bill',y='tip',data=t1)
```

```
Out[7]: <AxesSubplot:xlabel='total_bill', ylabel='tip'>
```



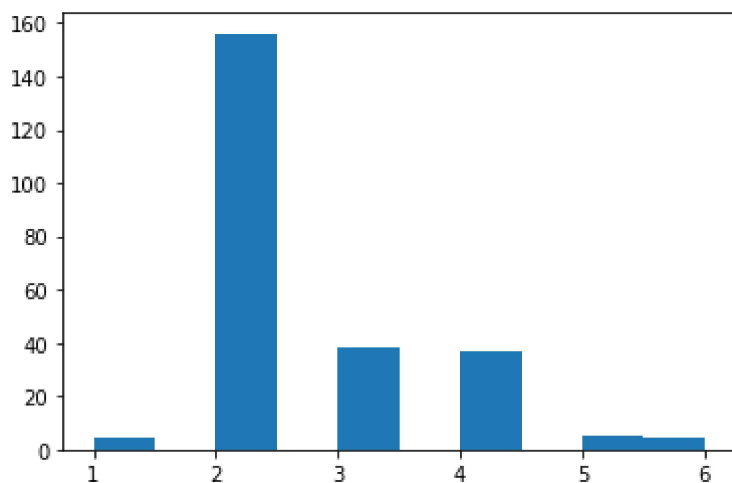
```
In [39]: sns.barplot(x='tip',y='total_bill',data=t1.head(30))
```

```
Out[39]: <AxesSubplot:xlabel='tip', ylabel='total_bill'>
```



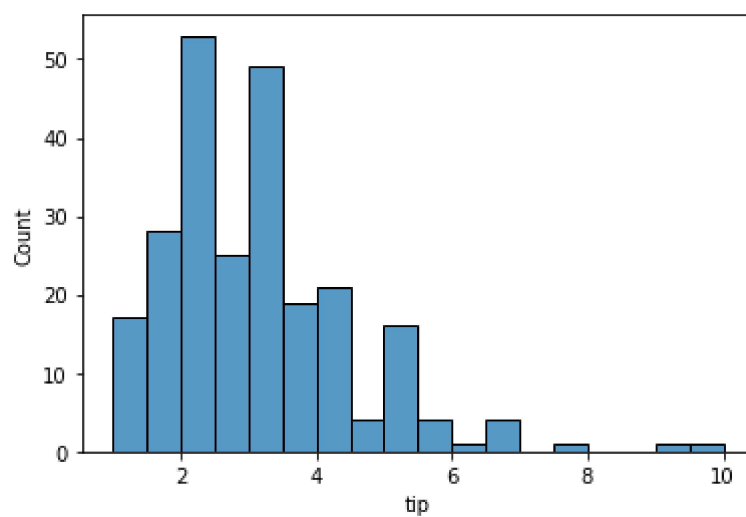
```
In [9]: plt.hist(t1['size'])
```

```
Out[9]: (array([ 4.,  0., 156.,  0., 38.,  0., 37.,  0.,  5.,  4.]),
array([1. , 1.5, 2. , 2.5, 3. , 3.5, 4. , 4.5, 5. , 5.5, 6. ]),
<BarContainer object of 10 artists>)
```



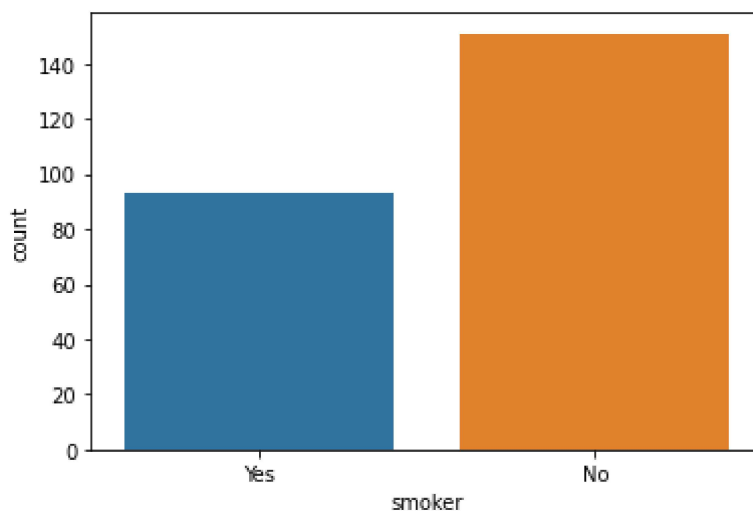
```
In [10]: sns.histplot(x='tip',data=t1)
```

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



```
In [11]: sns.countplot(x='smoker',data=t1)
```

```
Out[11]: <AxesSubplot:xlabel='smoker', ylabel='count'>
```



```
In [12]: sns.get_dataset_names()
```

```
Out[12]: ['anagrams',
          'anscombe',
          'attention',
          'brain_networks',
          'car_crashes',
          'diamonds',
          'dots',
          'exercise',
          'flights',
          'fmri',
          'gammas',
          'geyser',
          'iris',
          'mpg',
          'penguins',
          'planets',
          'taxis',
          'tips',
          'titanic']
```

```
In [13]: t2=sns.load_dataset('titanic')
```

```
In [14]: t2
```

```
Out[14]:
```

	survived	pclass	sex	age	sibsp	parch	fare	embarked	class	who	adult_male
0	0	3	male	22.0	1	0	7.2500	S	Third	man	True
1	1	1	female	38.0	1	0	71.2833	C	First	woman	False
2	1	3	female	26.0	0	0	7.9250	S	Third	woman	False
3	1	1	female	35.0	1	0	53.1000	S	First	woman	False
4	0	3	male	35.0	0	0	8.0500	S	Third	man	True
...
886	0	2	male	27.0	0	0	13.0000	S	Second	man	True
887	1	1	female	19.0	0	0	30.0000	S	First	woman	False
888	0	3	female	NaN	1	2	23.4500	S	Third	woman	False
889	1	1	male	26.0	0	0	30.0000	C	First	man	True
890	0	3	male	32.0	0	0	7.7500	Q	Third	man	True

891 rows × 15 columns



In [15]: `t2.head()`

Out[15]:

	survived	pclass	sex	age	sibsp	parch	fare	embarked	class	who	adult_male	de
0	0	3	male	22.0	1	0	7.2500	S	Third	man	True	Ni
1	1	1	female	38.0	1	0	71.2833	C	First	woman	False	
2	1	3	female	26.0	0	0	7.9250	S	Third	woman	False	Ni
3	1	1	female	35.0	1	0	53.1000	S	First	woman	False	
4	0	3	male	35.0	0	0	8.0500	S	Third	man	True	Ni

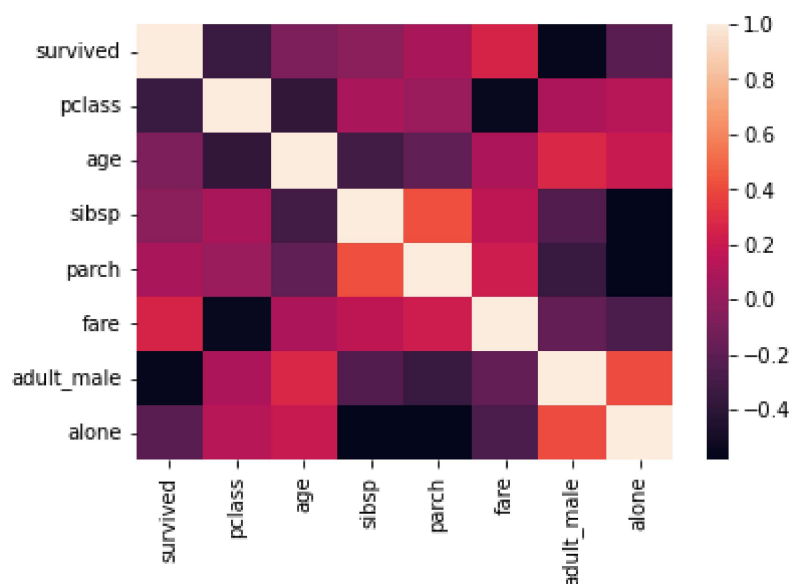
In [16]: `t2.corr()`

Out[16]:

	survived	pclass	age	sibsp	parch	fare	adult_male	alone
survived	1.000000	-0.338481	-0.077221	-0.035322	0.081629	0.257307	-0.557080	-0.203367
pclass	-0.338481	1.000000	-0.369226	0.083081	0.018443	-0.549500	0.094035	0.135207
age	-0.077221	-0.369226	1.000000	-0.308247	-0.189119	0.096067	0.280328	0.198270
sibsp	-0.035322	0.083081	-0.308247	1.000000	0.414838	0.159651	-0.253586	-0.584471
parch	0.081629	0.018443	-0.189119	0.414838	1.000000	0.216225	-0.349943	-0.583398
fare	0.257307	-0.549500	0.096067	0.159651	0.216225	1.000000	-0.182024	-0.271832
adult_male	-0.557080	0.094035	0.280328	-0.253586	-0.349943	-0.182024	1.000000	0.404744
alone	-0.203367	0.135207	0.198270	-0.584471	-0.583398	-0.271832	0.404744	1.000000

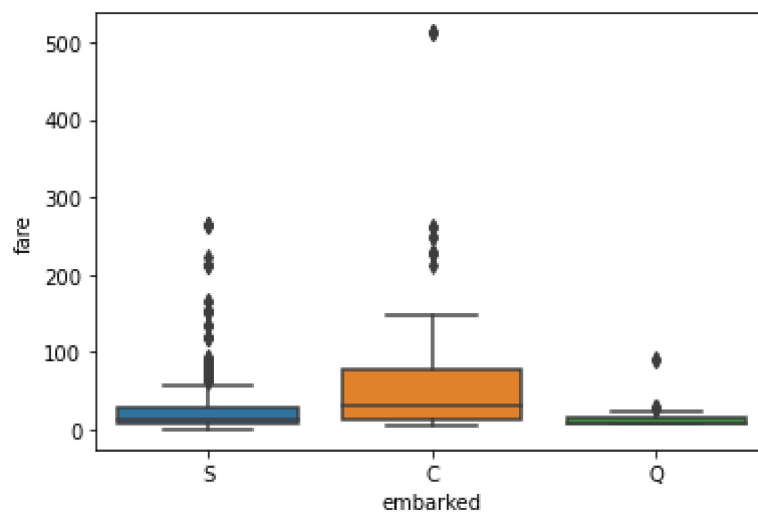
```
In [17]: sns.heatmap(t2.corr())
```

```
Out[17]: <AxesSubplot:>
```



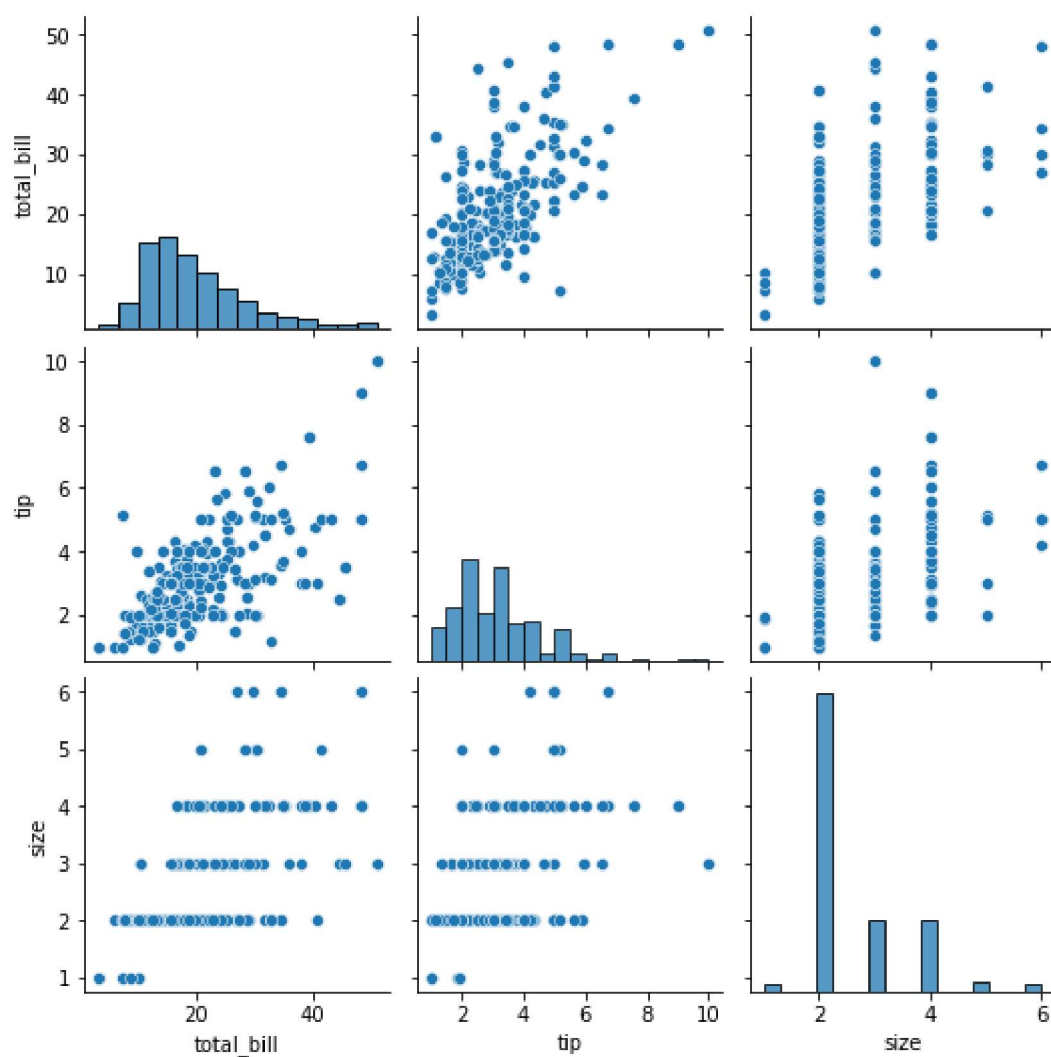
```
In [18]: sns.boxplot(x='embarked',y='fare',data=t2)
```

```
Out[18]: <AxesSubplot:xlabel='embarked', ylabel='fare'>
```




```
In [19]: sns.pairplot(t1)
```

```
Out[19]: <seaborn.axisgrid.PairGrid at 0x2c6a81012e0>
```



```
In [20]: t3=sns.load_dataset('exercise')
```

```
In [21]: t3
```

```
Out[21]:
```

	Unnamed: 0	id	diet	pulse	time	kind
0	0	1	low fat	85	1 min	rest
1	1	1	low fat	85	15 min	rest
2	2	1	low fat	88	30 min	rest
3	3	2	low fat	90	1 min	rest
4	4	2	low fat	92	15 min	rest
...
85	85	29	no fat	135	15 min	running
86	86	29	no fat	130	30 min	running
87	87	30	no fat	99	1 min	running
88	88	30	no fat	111	15 min	running
89	89	30	no fat	150	30 min	running

90 rows × 6 columns

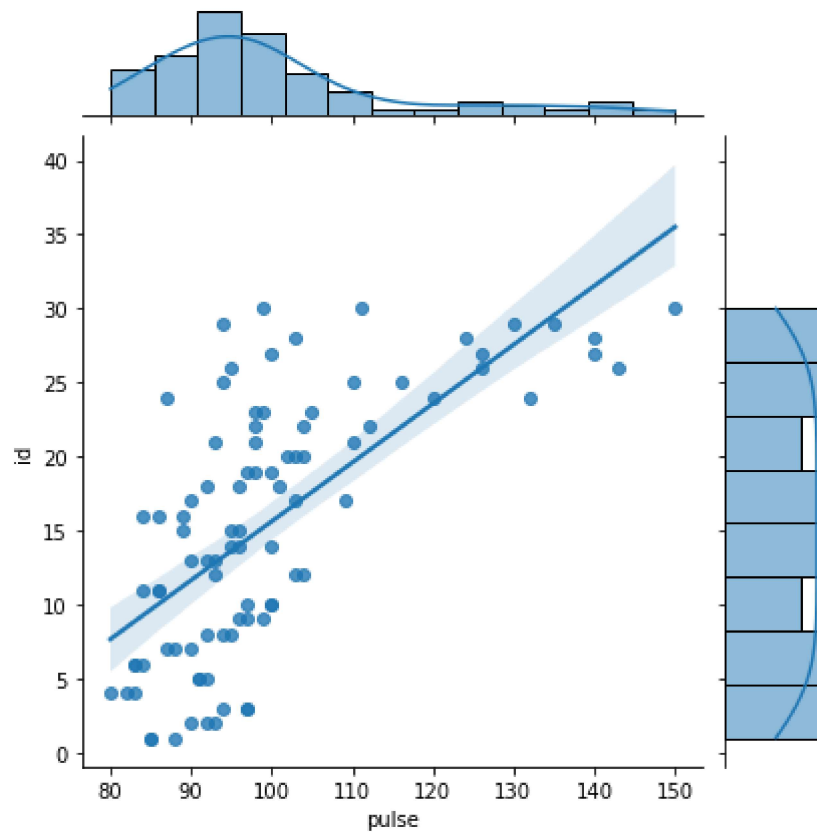
```
In [22]: t3.head()
```

```
Out[22]:
```

	Unnamed: 0	id	diet	pulse	time	kind
0	0	1	low fat	85	1 min	rest
1	1	1	low fat	85	15 min	rest
2	2	1	low fat	88	30 min	rest
3	3	2	low fat	90	1 min	rest
4	4	2	low fat	92	15 min	rest

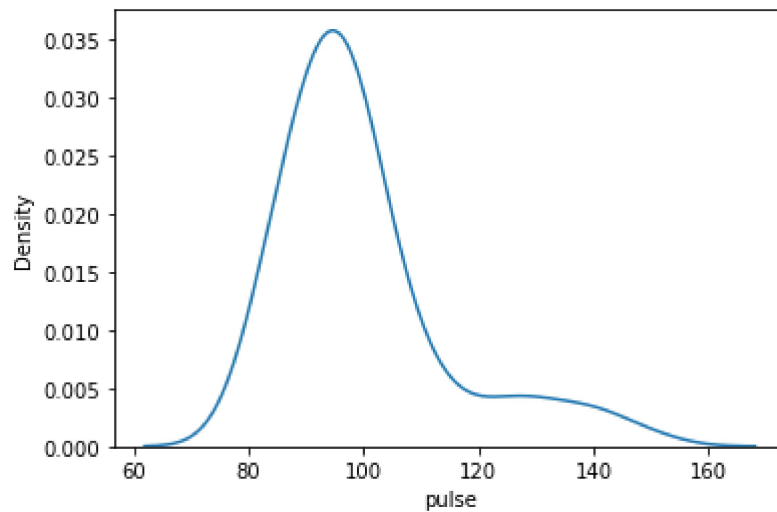
```
In [41]: sns.jointplot(x='pulse',y='id',data=t3,kind='reg')
```

```
Out[41]: <seaborn.axisgrid.JointGrid at 0x2c6ae071d00>
```



```
In [24]: sns.kdeplot(x='pulse',data=t3)
```

```
Out[24]: <AxesSubplot:xlabel='pulse', ylabel='Density'>
```

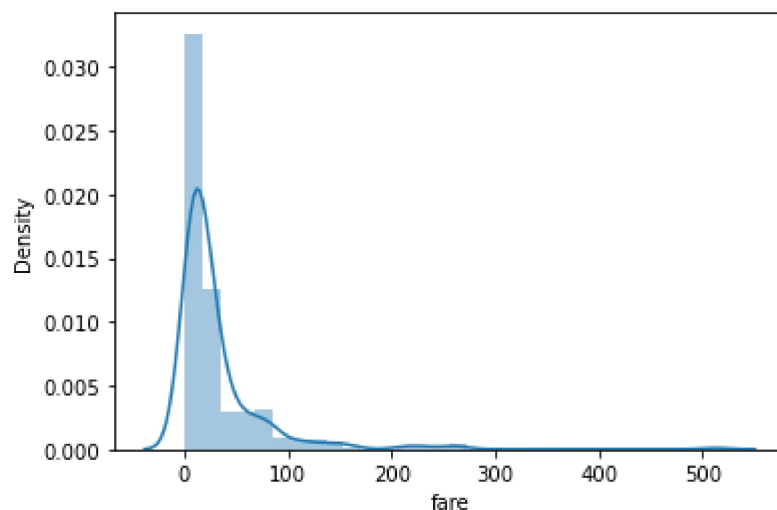


```
In [25]: sns.distplot(t2['fare'],bins=30)
```

C:\Users\prana\anaconda3\lib\site-packages\seaborn\distributions.py:2619: FutureWarning: `distplot` is a deprecated function and will be removed in a future version. Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).

```
warnings.warn(msg, FutureWarning)
```

```
Out[25]: <AxesSubplot:xlabel='fare', ylabel='Density'>
```



In []:

In []: