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Run Code

In [51]:
```
!pip install seaborn

import numpy as np
import pandas as pd
from matplotlib import pyplot as plt
import seaborn as sb
%matplotlib inline
```

```
Requirement already satisfied: seaborn in c:\users\hp\anaconda3\lib\site-packages (0.11.1)
Requirement already satisfied: matplotlib>=2.2 in c:\users\hp\anaconda3\lib\site-packages (from seaborn) (3.3.4)
Requirement already satisfied: numpy>=1.15 in c:\users\hp\anaconda3\lib\site-packages (from seaborn) (1.20.1)
Requirement already satisfied: pandas>=0.23 in c:\users\hp\anaconda3\lib\site-packages (from seaborn) (1.2.4)
Requirement already satisfied: scipy>=1.0 in c:\users\hp\anaconda3\lib\site-packages (from seaborn) (1.6.2)
Requirement already satisfied: cycler>=0.10 in c:\users\hp\anaconda3\lib\site-packages (from matplotlib>=2.2->seaborn) (0.10.0)
Requirement already satisfied: python-dateutil>=2.1 in c:\users\hp\anaconda3\lib\site-packages (from matplotlib>=2.2->seaborn)
(2.8.1)
Requirement already satisfied: pillow>=6.2.0 in c:\users\hp\anaconda3\lib\site-packages (from matplotlib>=2.2->seaborn) (8.2.0)
Requirement already satisfied: pyparsing!=2.0.4,!=2.1.2,!=2.1.6,>=2.0.3 in c:\users\hp\anaconda3\lib\site-packages (from matplo
tlib>=2.2->seaborn) (2.4.7)
Requirement already satisfied: kiwisolver>=1.0.1 in c:\users\hp\anaconda3\lib\site-packages (from matplotlib>=2.2->seaborn) (1.
3.1)
Requirement already satisfied: six in c:\users\hp\anaconda3\lib\site-packages (from cycler>=0.10->matplotlib>=2.2->seaborn) (1.
15.0)
Requirement already satisfied: pytz>=2017.3 in c:\users\hp\anaconda3\lib\site-packages (from pandas>=0.23->seaborn) (2021.1)
```

In [33]:
```
tips=sb.load_dataset('tips')
tips
```

Out[33]:

	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
...	...	...	...	...	...	...	...

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```
Requirement already satisfied: pytz>=2017.3 in c:\users\hp\anaconda3\lib\site-packages (from pandas>=0.23->seabo
```

In [33]:
```
1 tips=sb.load_dataset('tips')
2 tips
```

Out[33]:

	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 [34]:
```
1 tips.head()
```

Out[34]:

	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 [35]:
```
1 # distplot
```

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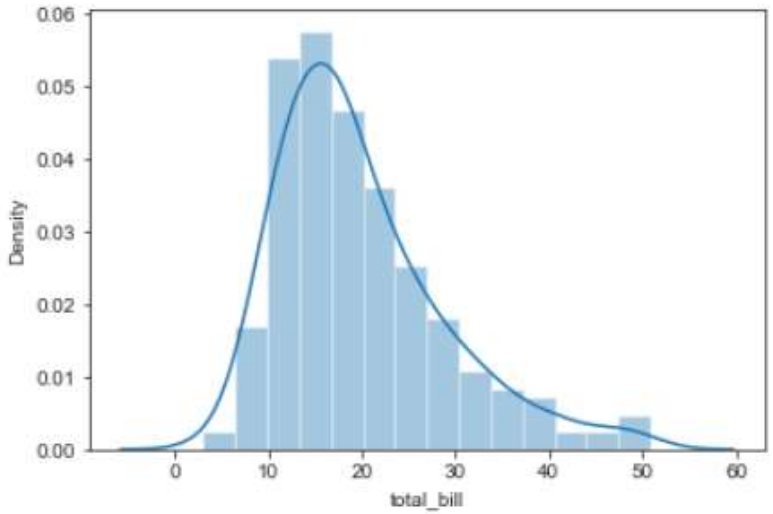
Run Code

In [36]:
```
1 sb.distplot(tips['total_bill'])
2 plt.show()
```

```
C:\Users\hp\anaconda3\lib\site-packages\seaborn\distributions.py:2557: FutureWarning: `distplot` is a deprecated function and w
ill be removed in a future version. Please adapt your code to use either `displot` (a figure-level function with similar flexib
ility) or `histplot` (an axes-level function for histograms).
  warnings.warn(msg, FutureWarning)
```



In [ ]:
```
1
```

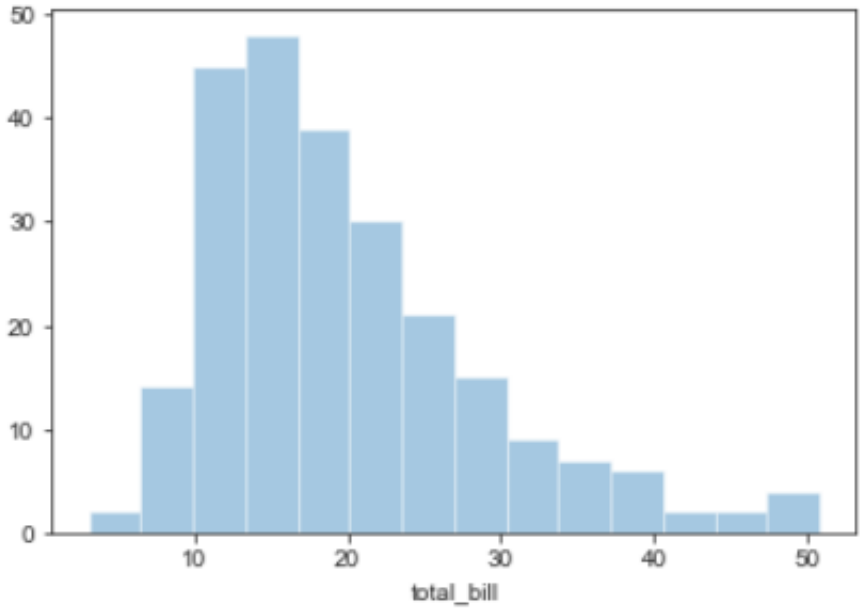
total_bill

In [ ]:
```
1
```

In [37]:
```
1 # seaborn histogram
```

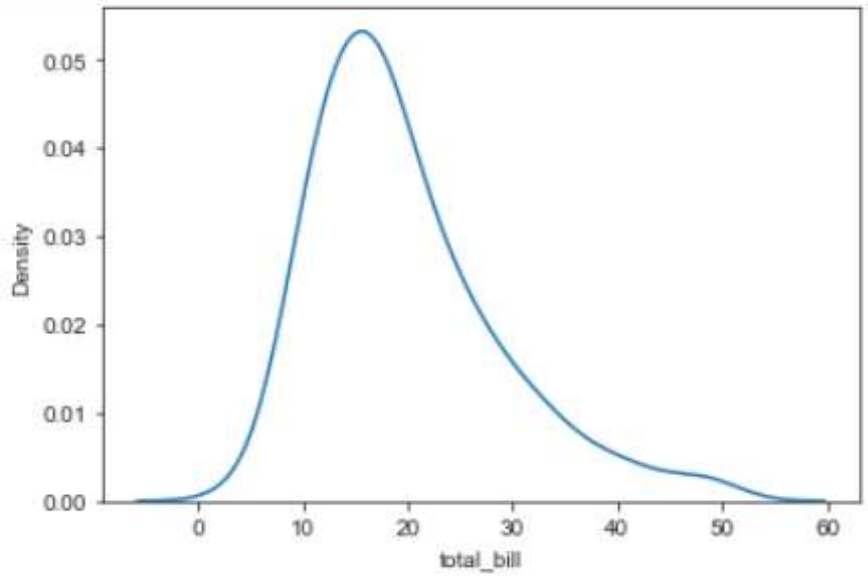
In [38]:
```
1 sb.distplot(tips['total_bill'],kde=False)
2 plt.show()
```

```
C:\Users\hp\anaconda3\lib\site-packages\seaborn\distributions.py:2557: FutureWarning: `distplot` is a dep
ill be removed in a future version. Please adapt your code to use either `displot` (a figure-level functi
ility) or `histplot` (an axes-level function for histograms).
  warnings.warn(msg, FutureWarning)
```



In [39]:
```
1 sb.distplot(tips['total_bill'],hist=False)       # kernsal plot
2 plt.show()
```

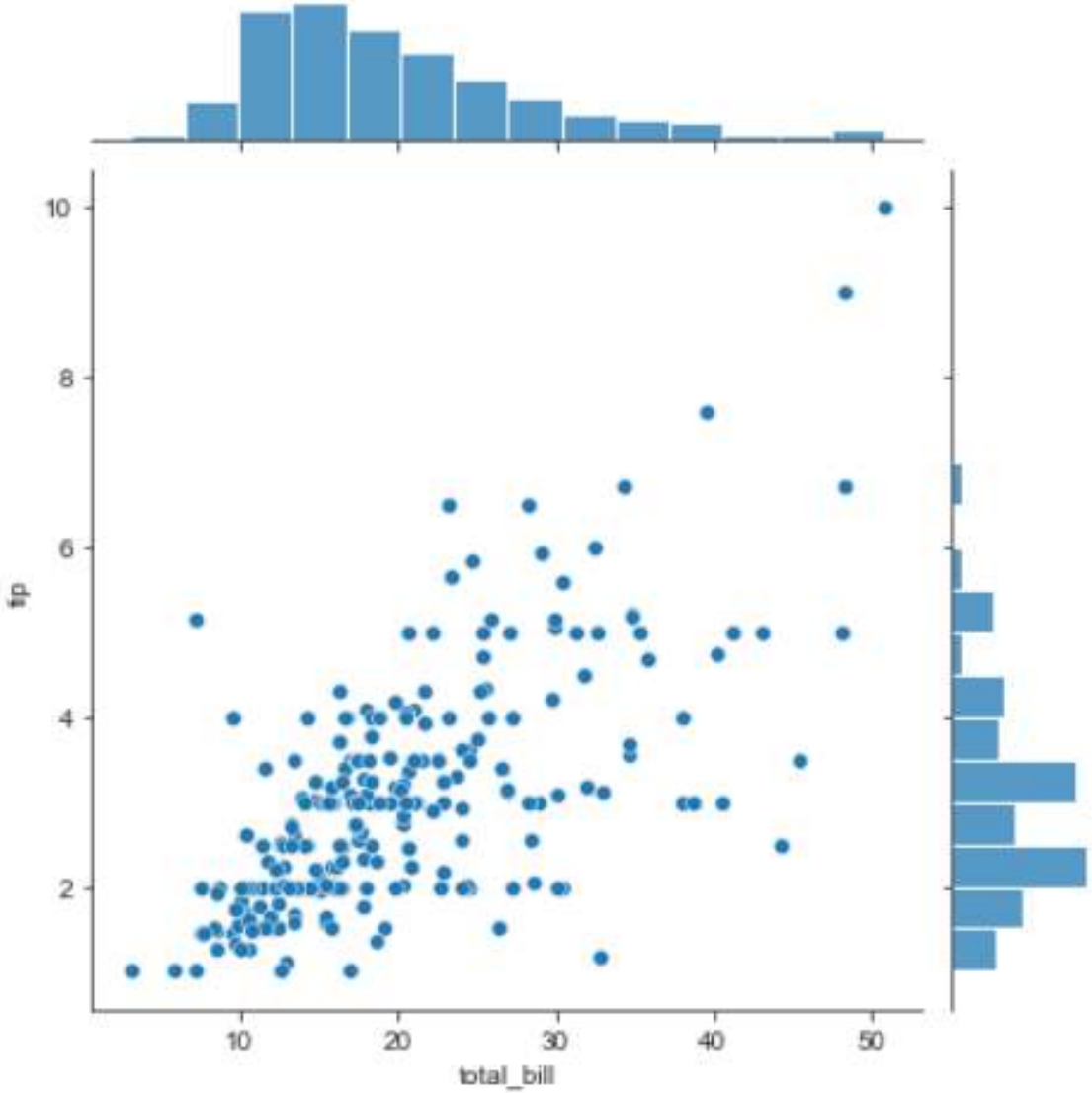
```
C:\Users\hp\anaconda3\lib\site-packages\seaborn\distributions.py:2557: FutureWarning: `distplot` is a deprecated
ill be removed in a future version. Please adapt your code to use either `displot` (a figure-level function with
ility) or `kdeplot` (an axes-level function for kernel density plots).
  warnings.warn(msg, FutureWarning)
```



In [ ]:
```
1
```

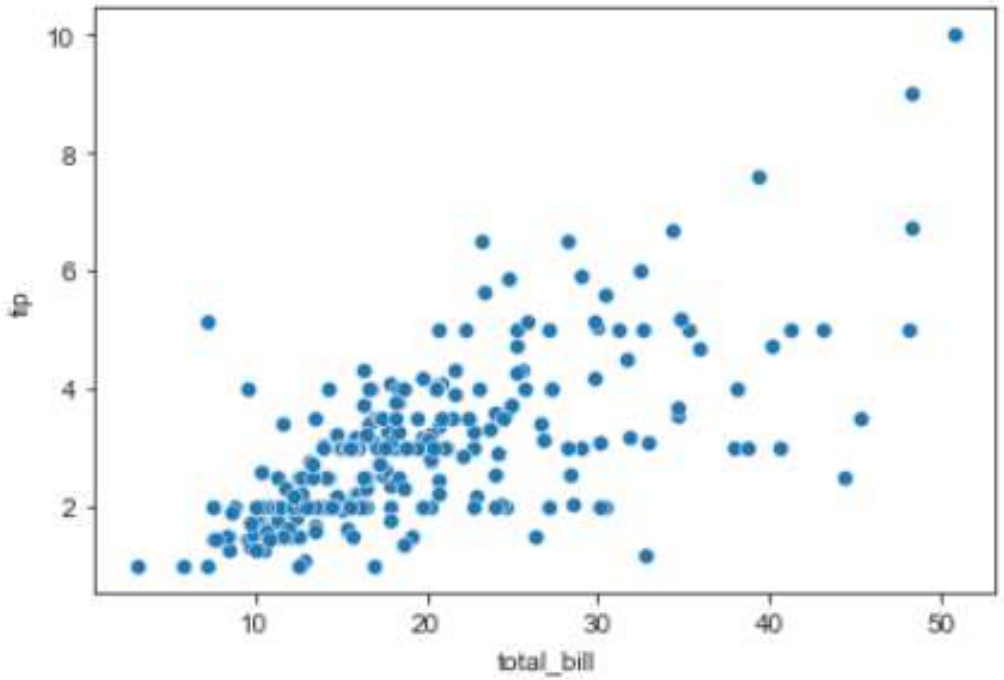
[40]:

```
sb.jointplot(x='total_bill',y='tip',data=tips)          #jointplot
plt.show()
```



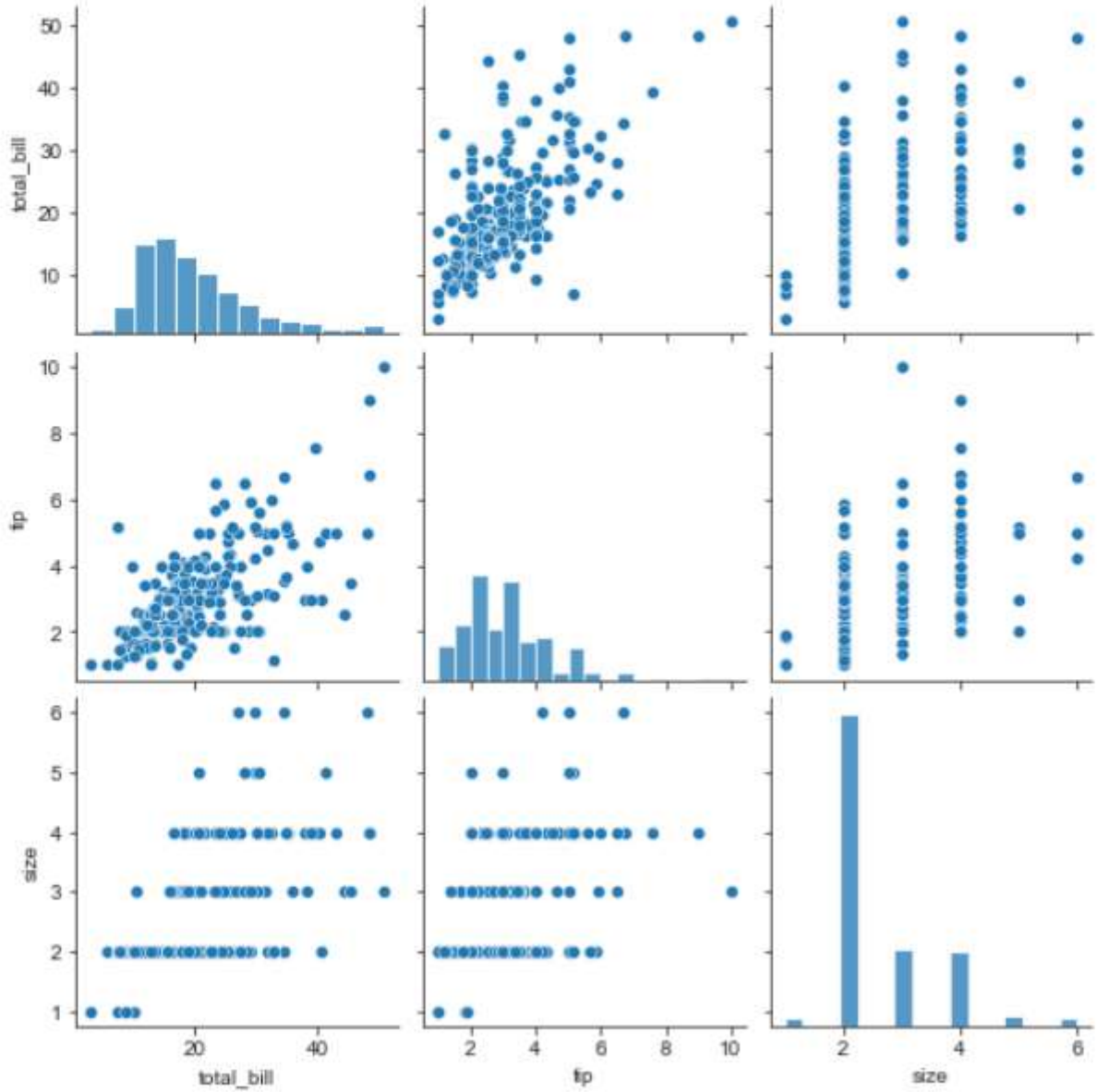
In [41]:

```
1 sb.scatterplot(x='total_bill',y='tip',data=tips)          #scatterplot
2 plt.show()
```

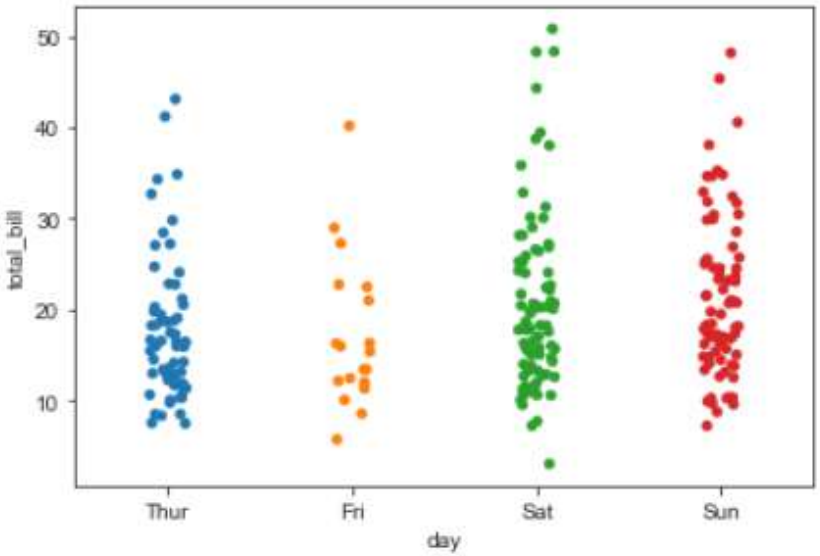


In [42]:

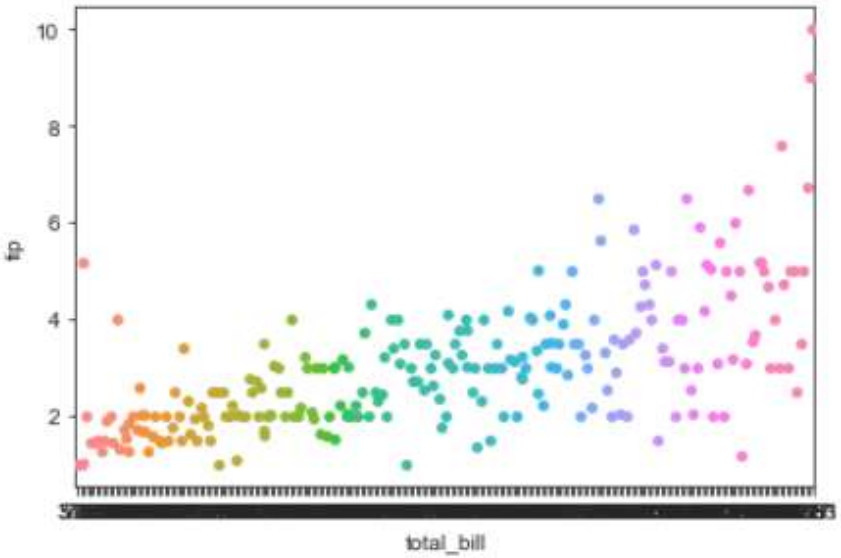
```
1 sb.set_style('ticks')          #set_style()
2 sb.pairplot(tips)              #pairplot()
3 plt.show()
```



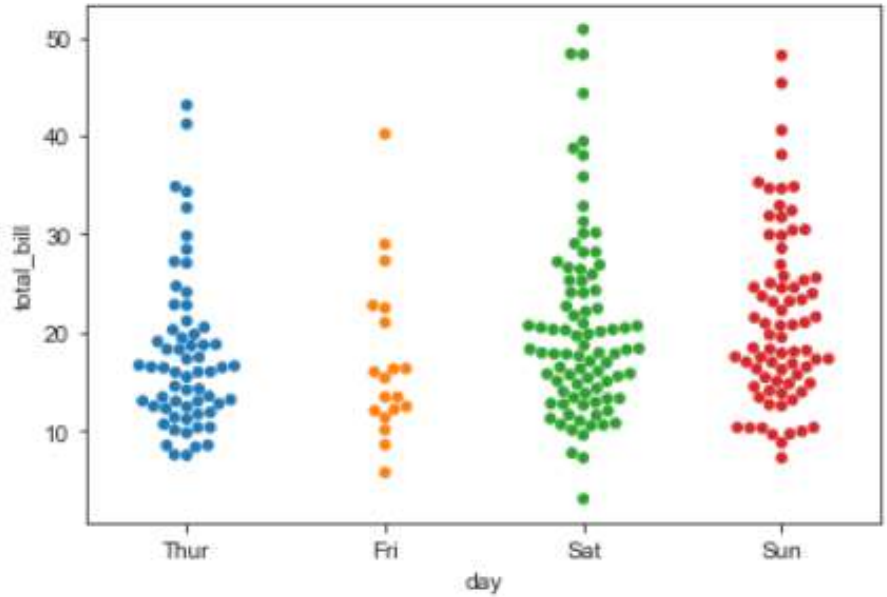
In [52]:
```
sb.stripplot(x='day',y='total_bill',data=tips)              #stripplot
plt.show()
```



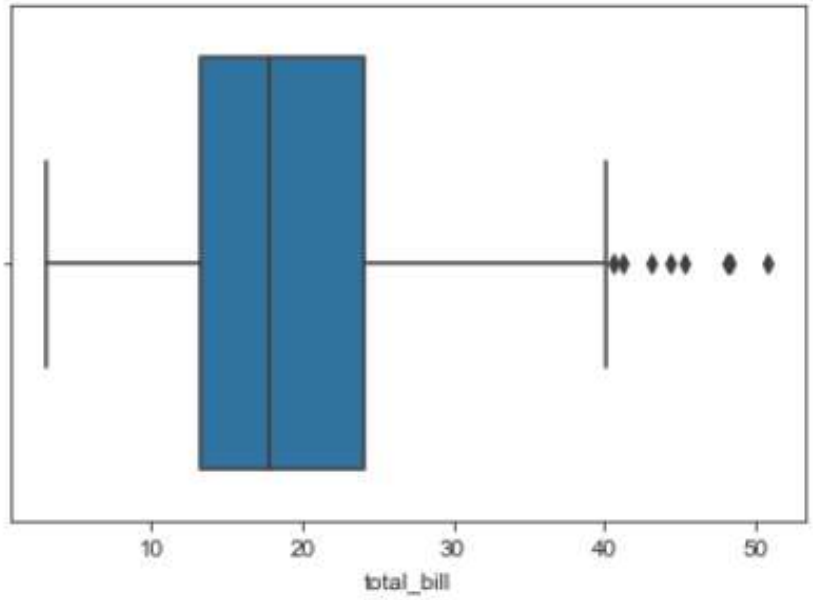
In [54]:
```
sb.stripplot(x='total_bill',y='tip',data=tips,jitter=True)     #stripplot,jitter
plt.show()

```



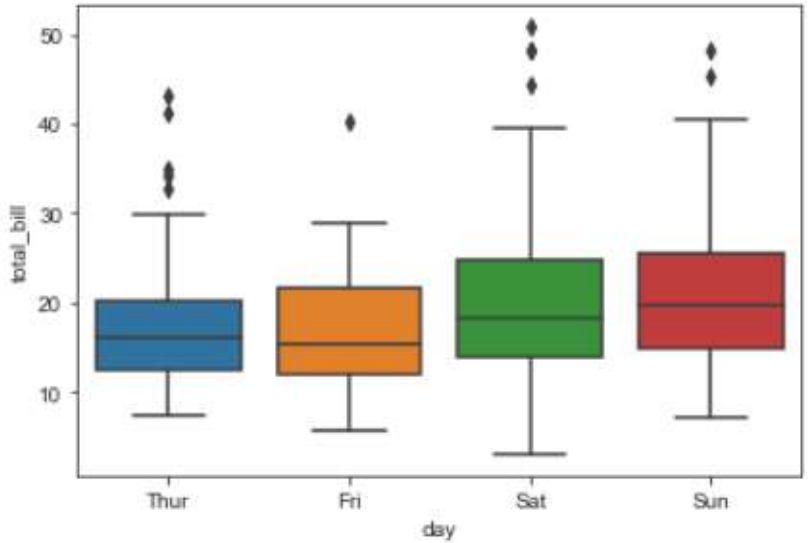
In [55]:
```
sb.swarmplot(x='day',y='total_bill',data=tips)          #swarmplot
plt.show()
```



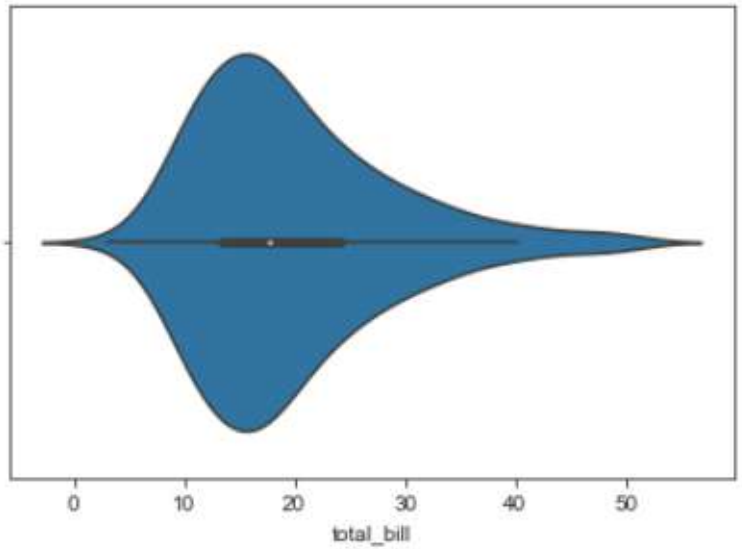
In [63]:
```
sb.boxplot(x=tips['total_bill'])                    # boxplot
plt.show()
```



In [68]:
```
sb.boxplot(x='day',y='total_bill',data=tips)       # b0xplot
plt.show()
```



In [69]:
```
sb.violinplot(x=tips['total_bill'])          #violin plot
plt.show()
```



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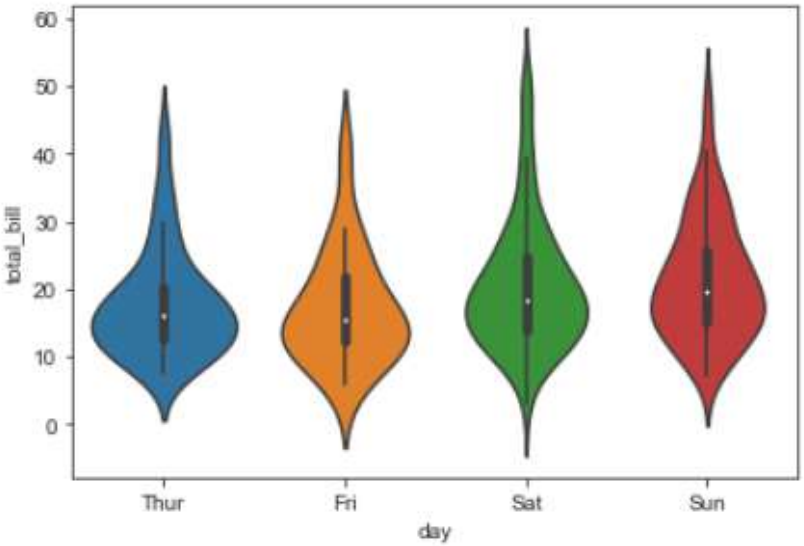
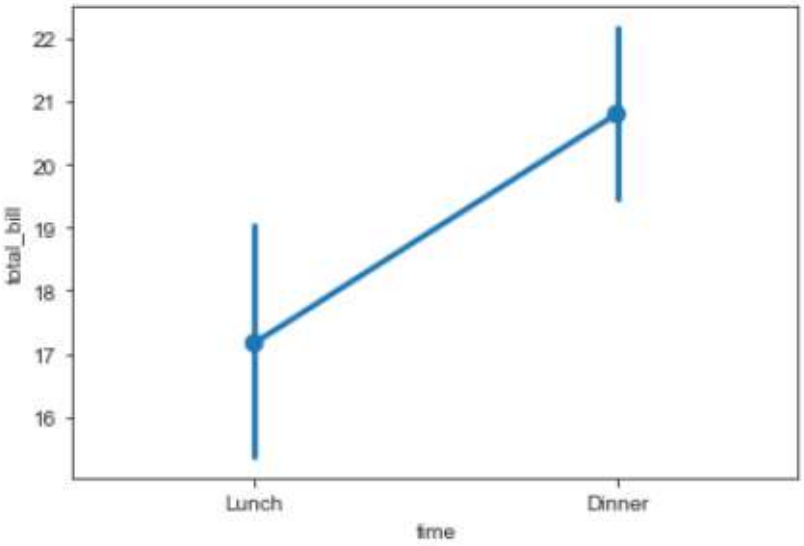
In [73]:
```
1 sb.violinplot(x='day',y='total_bill',data=tips)          #jointplot
2 plt.show()
```

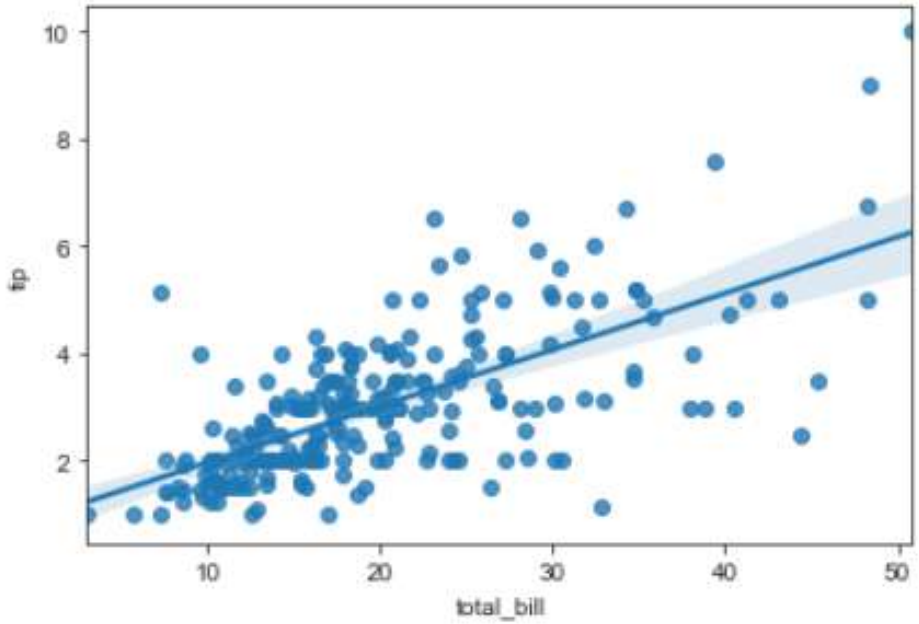


In [78]:
```
1 sb.pointplot(x='time',y='total_bill',data=tips)          #point plot
2 plt.show()
```



time

In [79]:
```
1 sb.regplot(x='total_bill',y='tip',data=tips)          #reg plot
2 plt.show()
```



In [ ]:
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