In [8]:

```
import matplotlib.pyplot as plt
```

In [9]:

```
%matplotlib inline
```

In [10]:

```
import pandas as pd
```

In [11]:

```
mtcars = pd.read_csv("https://gist.githubusercontent.com/ZeccaLehn/4e06d2575eb9589dbe8c365d61cb056c/raw/64f1660f38ef523b2a1a13be77b002b98
```

In [12]:

```
mtcars.dtypes
```

Out[12]:

```
Unnamed: 0     object
mpg           float64
cyl             int64
disp          float64
hp              int64
drat          float64
wt            float64
qsec          float64
vs              int64
am              int64
gear            int64
carb            int64
dtype: object
```

In [13]:

```
mtcars.columns
```

Out[13]:

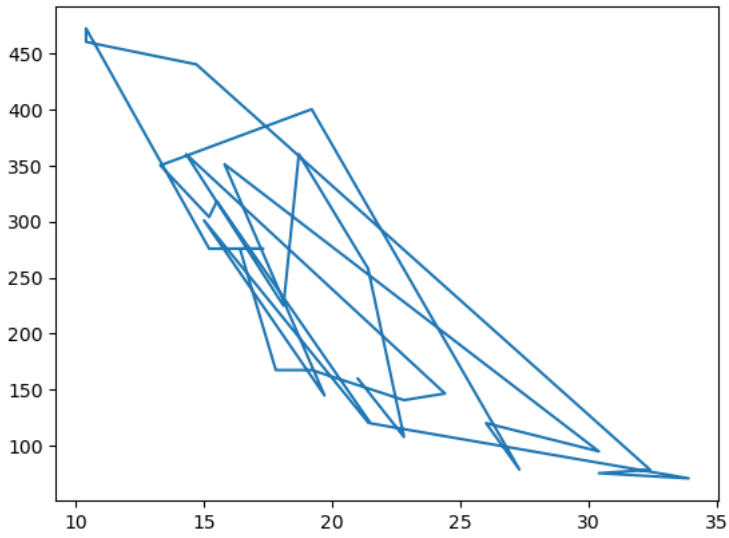
```
Index(['Unnamed: 0', 'mpg', 'cyl', 'disp', 'hp', 'drat', 'wt', 'qsec', 'vs',
       'am', 'gear', 'carb'],
      dtype='object')
```

In [14]:

```
plt.plot(mtcars["mpg"],mtcars["disp"])
```

Out[14]:

```
[<matplotlib.lines.Line2D at 0x1eb60879780>]
```



In [15]:

```
mtcars.dtypes
```

Out[15]:

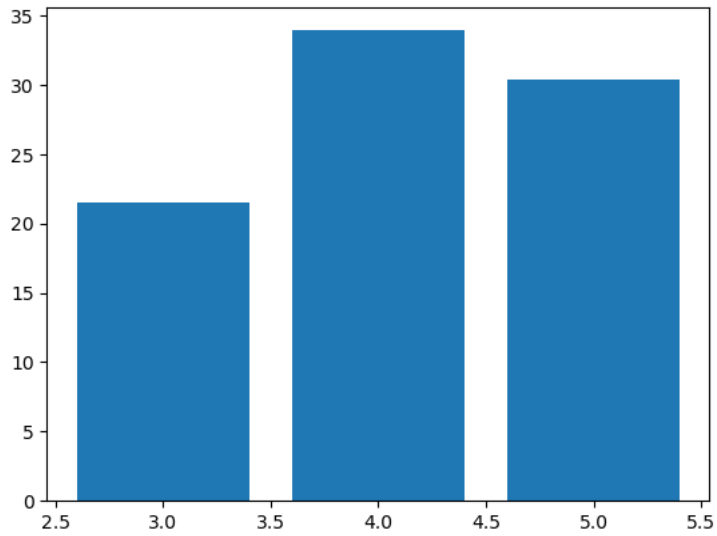
```
Unnamed: 0     object
mpg           float64
cyl             int64
disp          float64
hp              int64
drat          float64
wt            float64
qsec          float64
vs              int64
am              int64
gear            int64
carb            int64
dtype: object
```

In [16]:

```
plt.bar(mtcars["gear"],mtcars["mpg"])
```

Out[16]:

```
<BarContainer object of 32 artists>
```

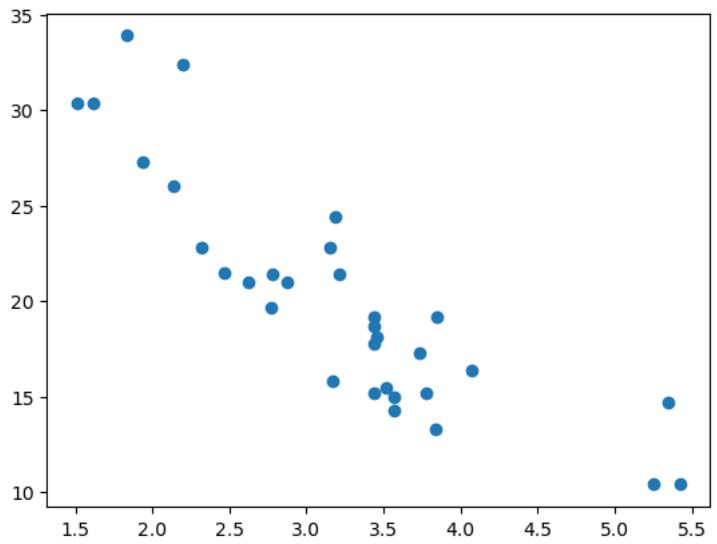


In [17]:

```
plt.scatter(mtcars['wt'],mtcars['mpg'])
```

Out[17]:

```
<matplotlib.collections.PathCollection at 0x1eb62b68c70>
```

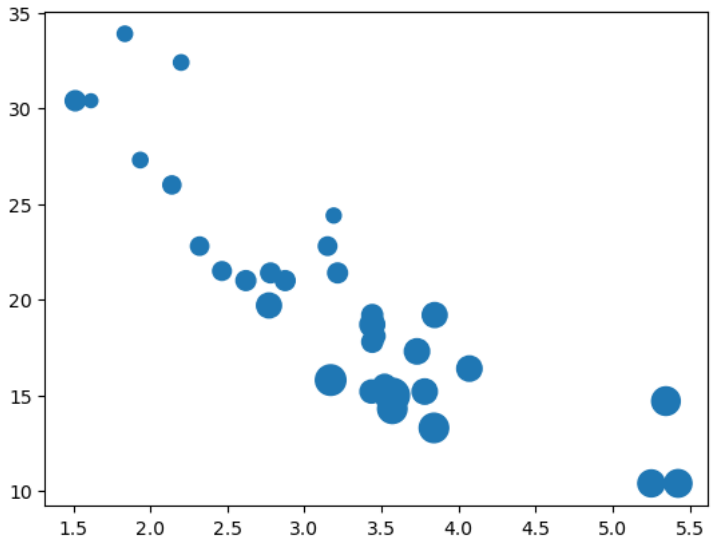


In [18]:

```
plt.scatter(mtcars['wt'],mtcars['mpg'],mtcars['hp'])
```

Out[18]:

```
<matplotlib.collections.PathCollection at 0x1eb62becd30>
```

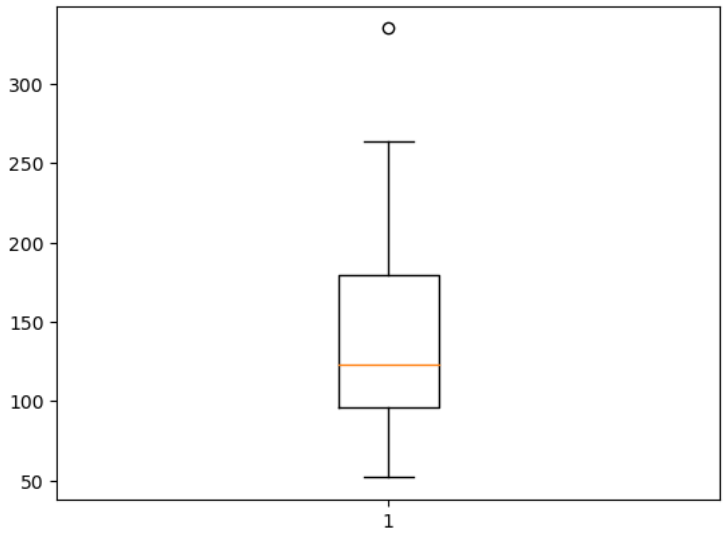


In [19]:

```
plt.boxplot(mtcars["hp"],vert=True)
```

Out[19]:

```
{'whiskers': [<matplotlib.lines.Line2D at 0x1eb62c4e410>,
  <matplotlib.lines.Line2D at 0x1eb62c4e6e0>],
 'caps': [<matplotlib.lines.Line2D at 0x1eb62c4e9b0>,
  <matplotlib.lines.Line2D at 0x1eb62c4ec80>],
 'boxes': [<matplotlib.lines.Line2D at 0x1eb62c4e140>],
 'medians': [<matplotlib.lines.Line2D at 0x1eb62c4ef50>],
 'fliers': [<matplotlib.lines.Line2D at 0x1eb62c4f220>],
 'means': []}
```



In [20]:

```
import seaborn as sns
```

In [21]:

```
tips = sns.load_dataset("tips")
```

In [22]:

```
tips.head()
```

Out[22]:

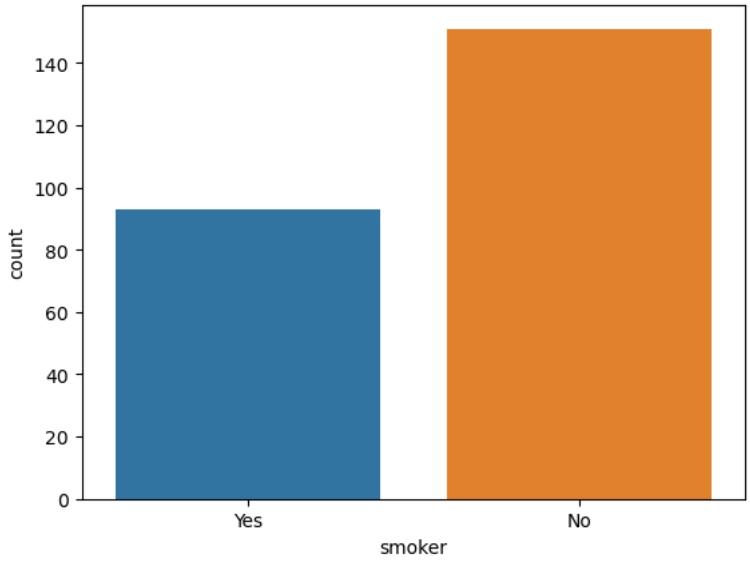
	total_bill	tip	sex	smoker	day	time	size
0	16.99	1.01	Female	No	Sun	Dinner	2
1	10.34	1.66	Male	No	Sun	Dinner	3
2	21.01	3.50	Male	No	Sun	Dinner	3
3	23.68	3.31	Male	No	Sun	Dinner	2
4	24.59	3.61	Female	No	Sun	Dinner	4

In [23]:

```
sns.countplot(x=tips["smoker"])
```

Out[23]:

```
<AxesSubplot:xlabel='smoker', ylabel='count'>
```

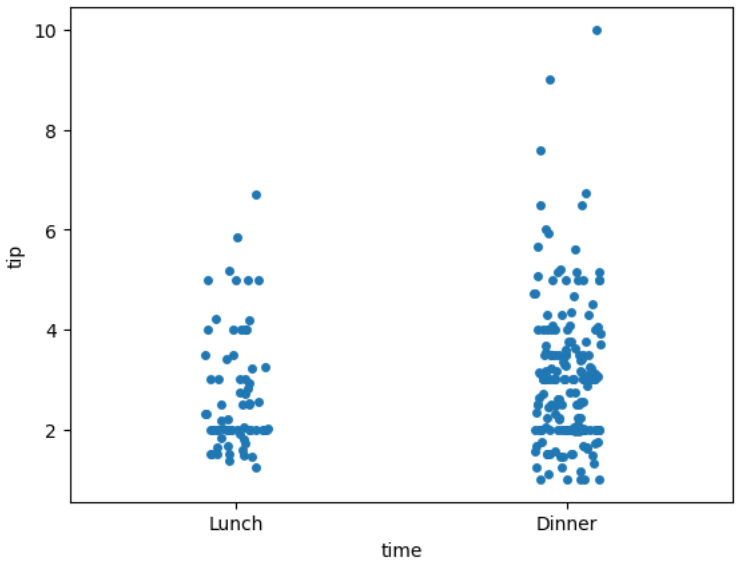


In [24]:

```
sns.stripplot(x=tips['time'],y=tips['tip'])
```

Out[24]:

```
<AxesSubplot:xlabel='time', ylabel='tip'>
```

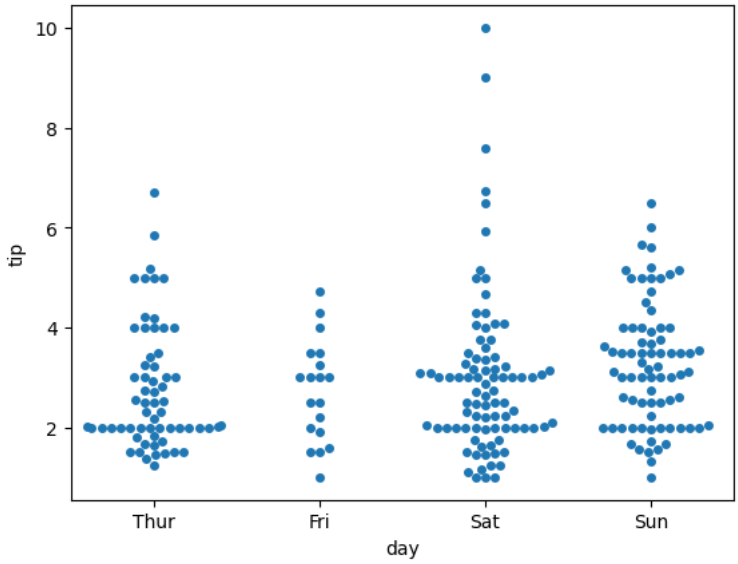


In [25]:

```
sns.swarmplot(x=tips['day'],y=tips['tip'])
```

Out[25]:

```
<AxesSubplot:xlabel='day', ylabel='tip'>
```



In [36]:

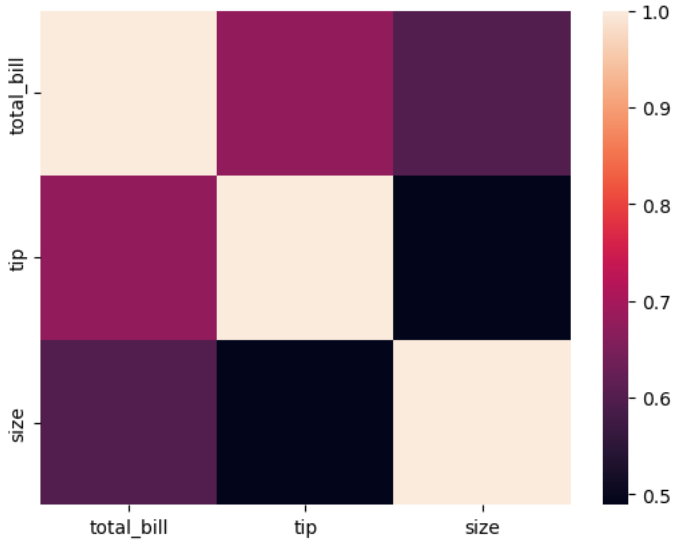
```
correlate = tips.corr()
```

In [37]:

```
sns.heatmap(correlate)
```

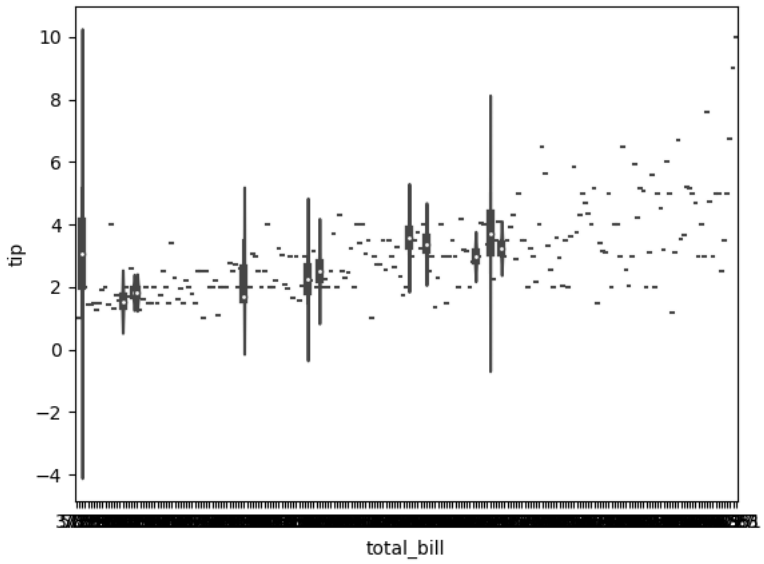
Out[37]:

```
<AxesSubplot:>
```



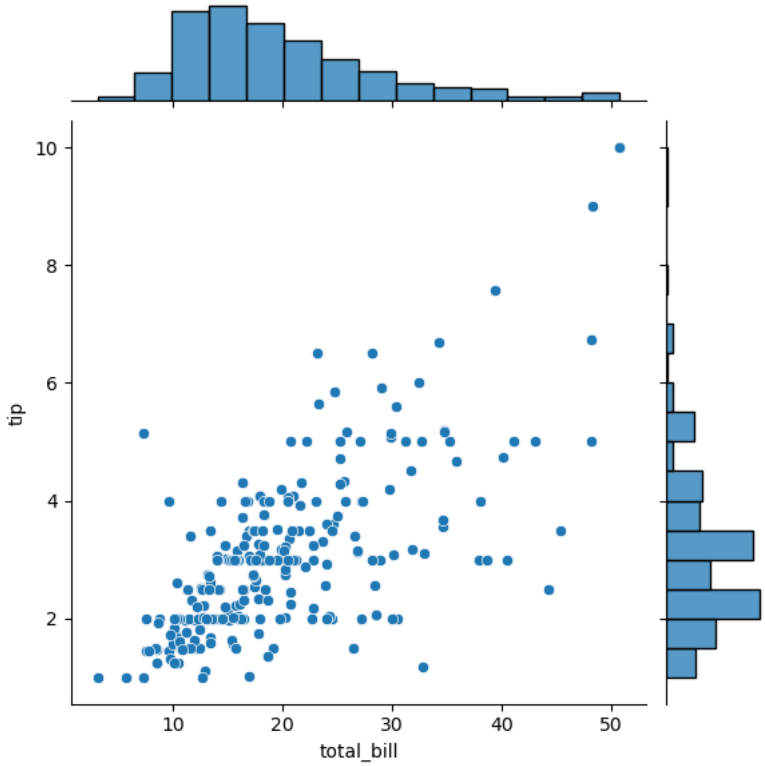
In [41]:

```
sns.violinplot(x='total_bill',y='tip',data=tips)
plt.show()
```



In [42]:

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



In [43]:

```
sns.pairplot(tips)
plt.show()
```