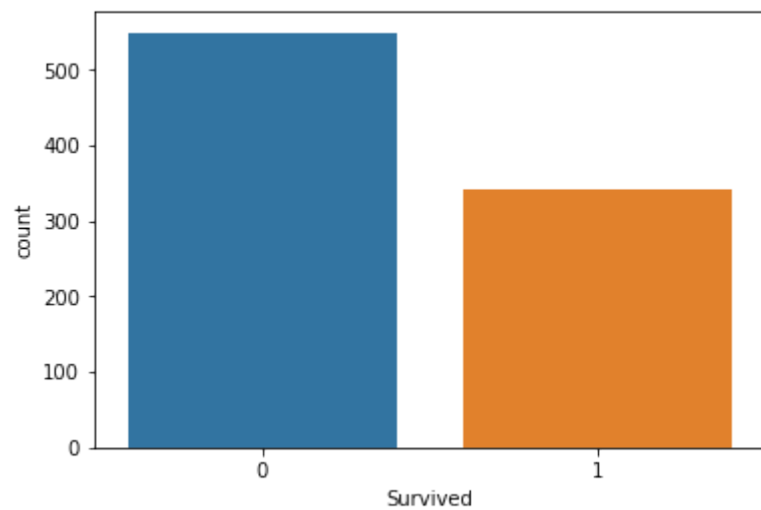


```
In [1]: import pandas as pd
import numpy as np
%matplotlib inline
import matplotlib.pyplot as plt
import seaborn as sns
```

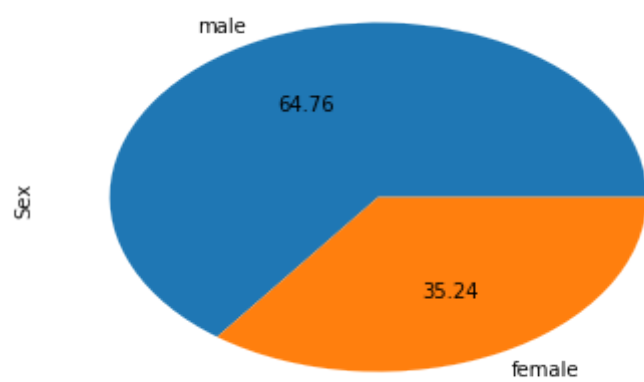
```
In [2]: from seaborn import load_dataset
data = pd.read_csv("titanic_train.csv")
```

```
In [3]: tips = load_dataset("tips")
```

```
In [4]: sns.countplot(data['Survived'])
plt.show()
```

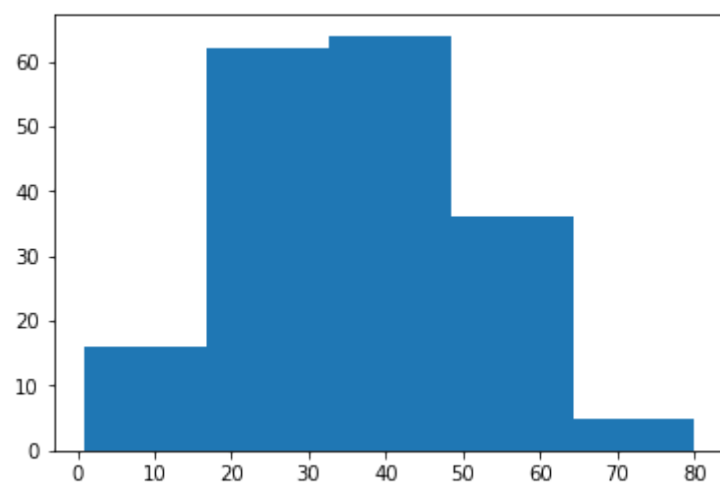


```
In [5]: data['Sex'].value_counts().plot(kind="pie", autopct="%.2f")
plt.show()
```

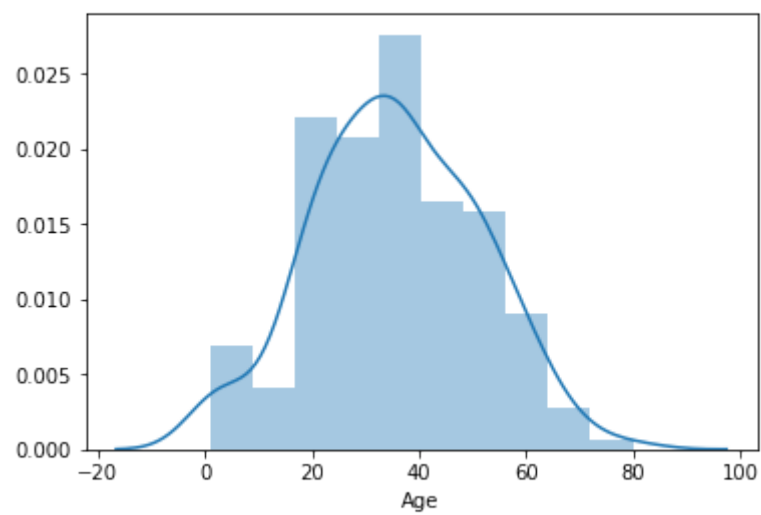


```
In [6]: data = data.dropna()
```

```
In [7]: plt.hist(data['Age'],bins=5)
plt.show()
```

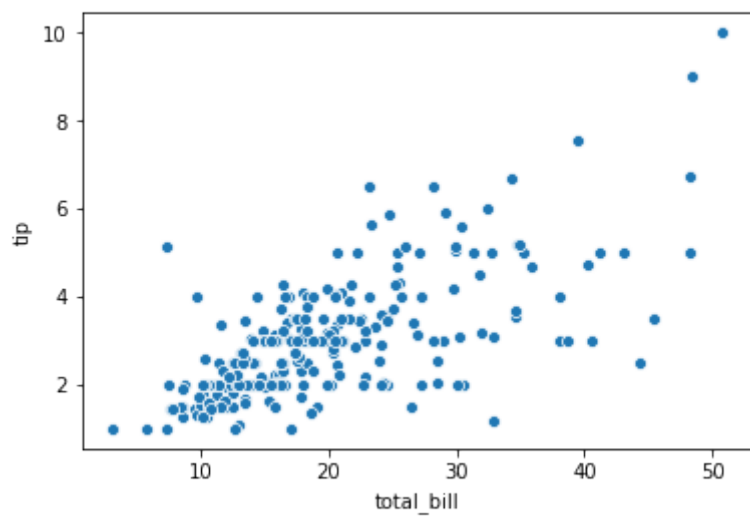


```
In [8]: sns.distplot(data['Age'])  
plt.show()
```

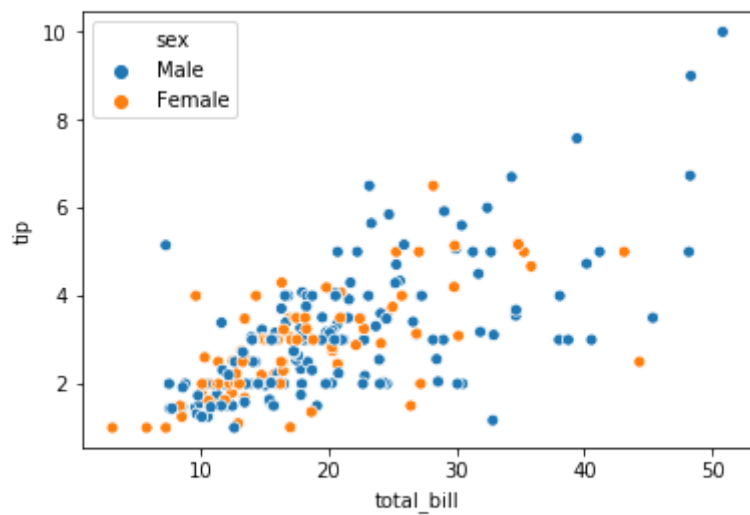


```
In [9]: sns.scatterplot(tips["total_bill"], tips["tip"])
```

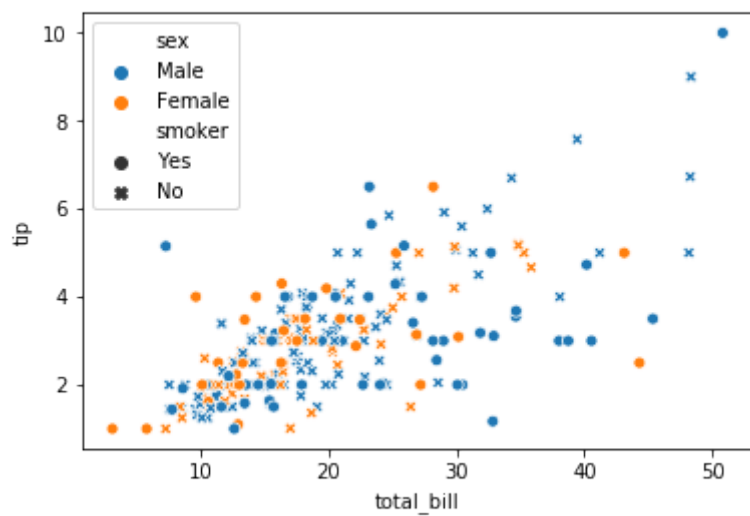
Out[9]: <matplotlib.axes._subplots.AxesSubplot at 0x7f90d4b3fb50>



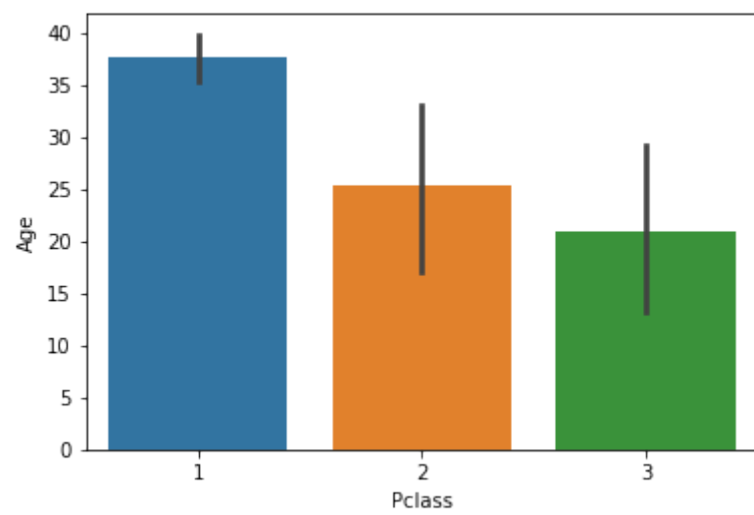
```
In [10]: sns.scatterplot(tips["total_bill"], tips["tip"], hue=tips["sex"])  
plt.show()
```



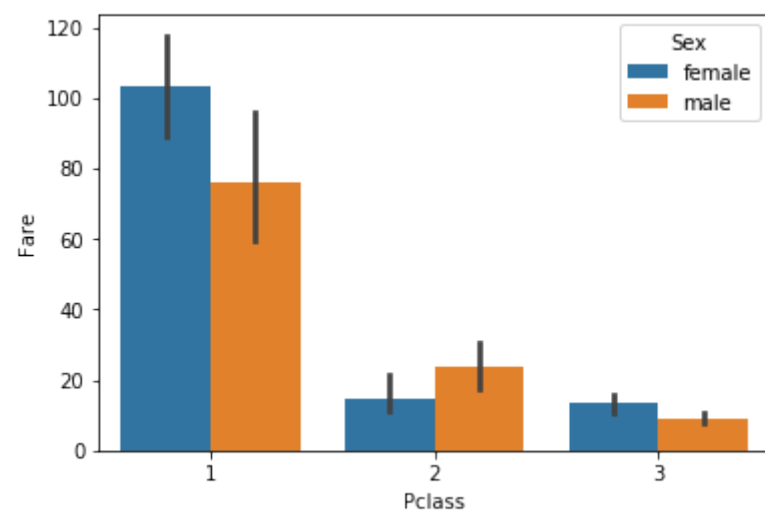
```
In [11]: sns.scatterplot(tips["total_bill"], tips["tip"], hue=tips["sex"], style=tips['smoker'])  
plt.show()
```



```
In [12]: sns.barplot(data['Pclass'], data['Age'])
plt.show()
```

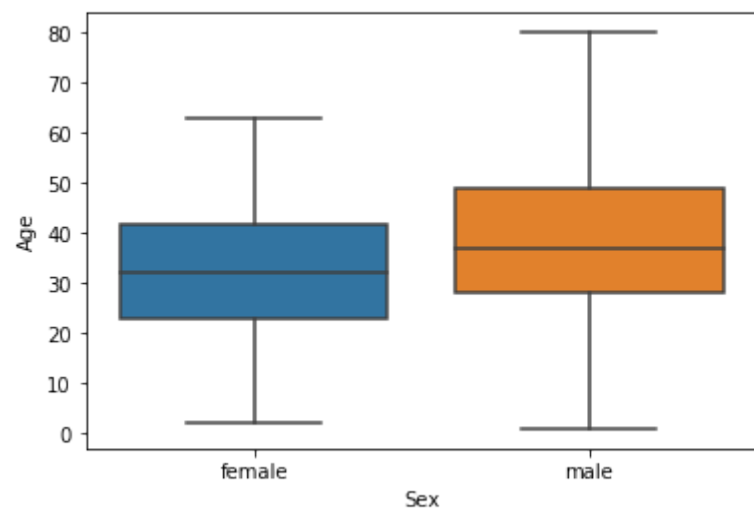


```
In [13]: sns.barplot(data['Pclass'], data['Fare'], hue = data["Sex"])
plt.show()
```

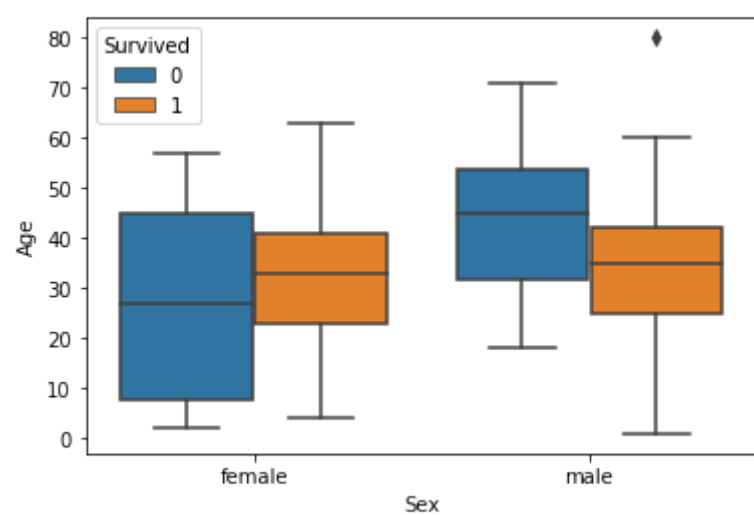


```
In [14]: sns.boxplot(data['Sex'], data["Age"])
```

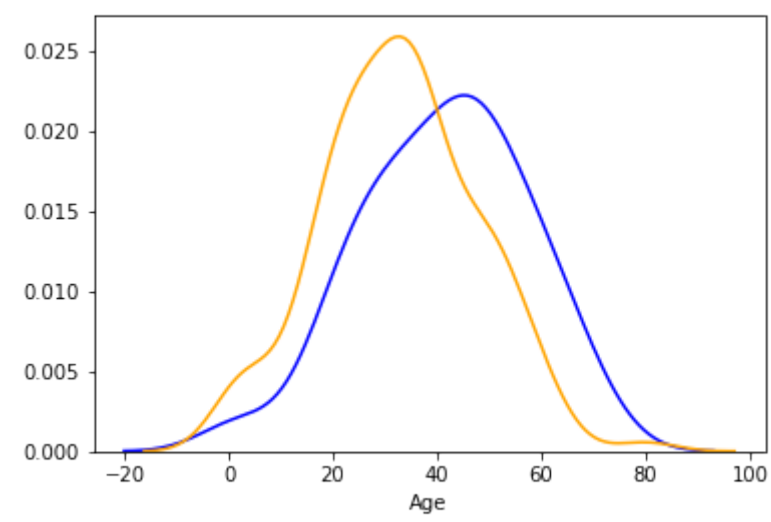
```
Out[14]: <matplotlib.axes._subplots.AxesSubplot at 0x7f90d4a636d0>
```



```
In [16]: sns.boxplot(data['Sex'], data["Age"], data["Survived"])
plt.show()
```



```
In [17]: sns.distplot(data[data['Survived'] == 0]['Age'], hist=False, color="blue")
sns.distplot(data[data['Survived'] == 1]['Age'], hist=False, color="orange")
plt.show()
```



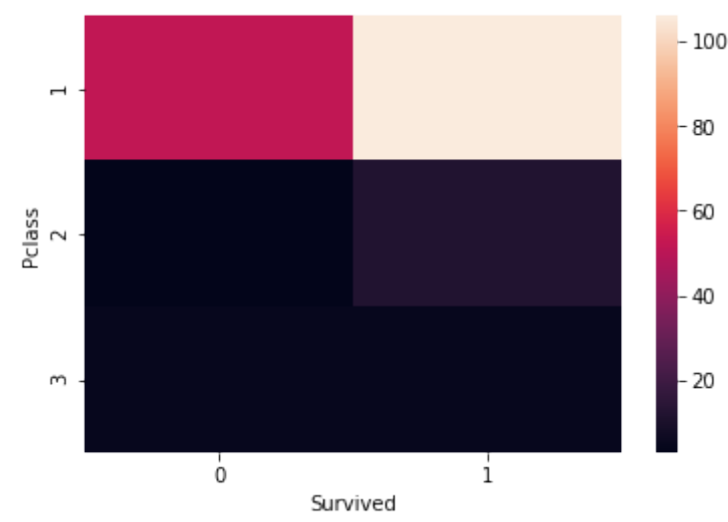
```
In [18]: pd.crosstab(data['Pclass'], data['Survived'])
```

Out[18]:

Survived	0	1
Pclass		
1	52	106
2	3	12
3	5	5

```
In [19]: sns.heatmap(pd.crosstab(data['Pclass'], data['Survived']))
```

Out[19]: <matplotlib.axes._subplots.AxesSubplot at 0x7f90d47b07d0>



```
In [20]: sns.clustermap(pd.crosstab(data['Parch'], data['Survived']))  
plt.show()
```

