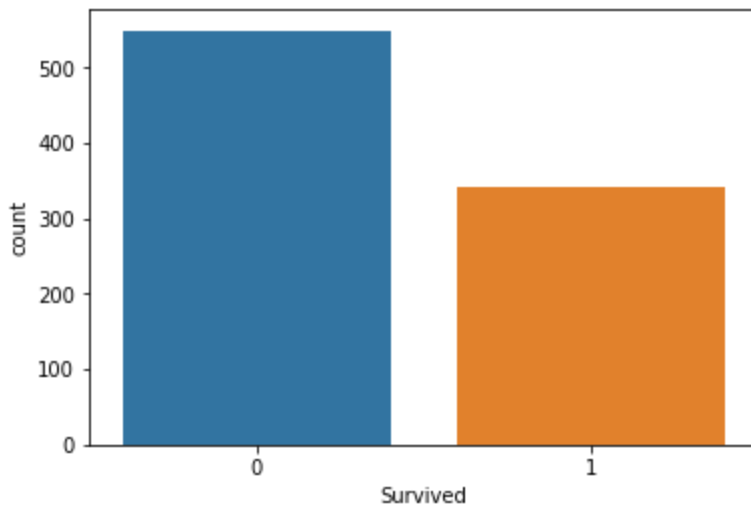```
In [1]: import pandas as pd
         import numpy as np
         %matplotlib inline
         import matplotlib.pyplot as plt
         import seaborn as sns
```
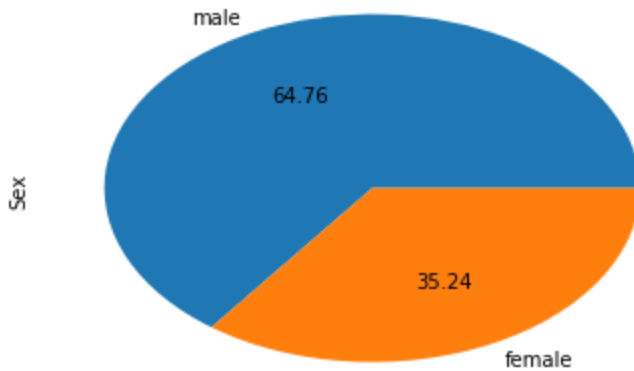
```
In [2]: from seaborn import load_dataset
         data = pd.read_csv("titanic_train.csv")
```

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

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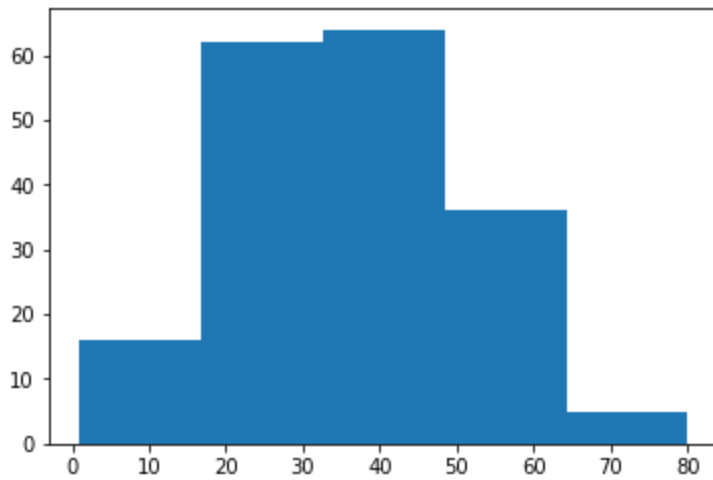


```
In [5]:  data['Sex'].value_counts().plot(kind="pie", autopct="%.2f")
         plt.show()
```
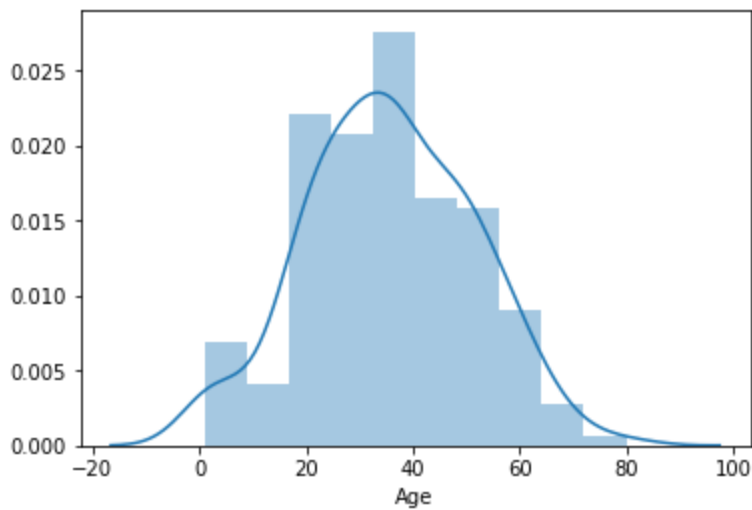


```
In [6]:  data = data.dropna()
```

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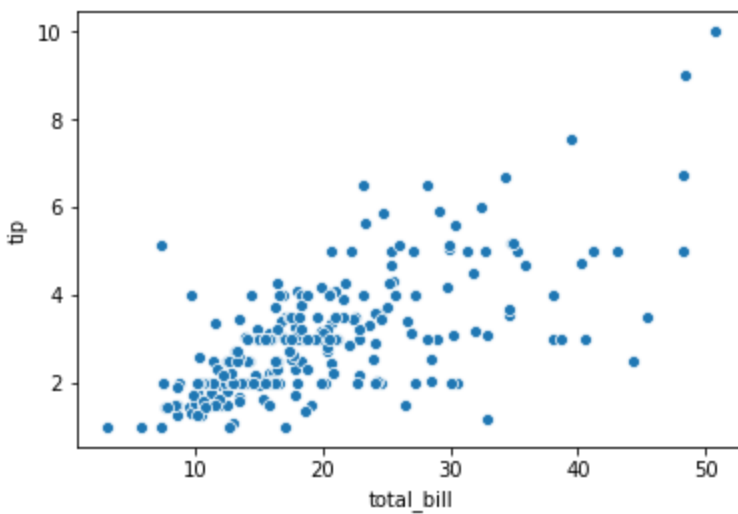


```
In [8]: sns.distplot(data['Age'])
        plt.show()
```
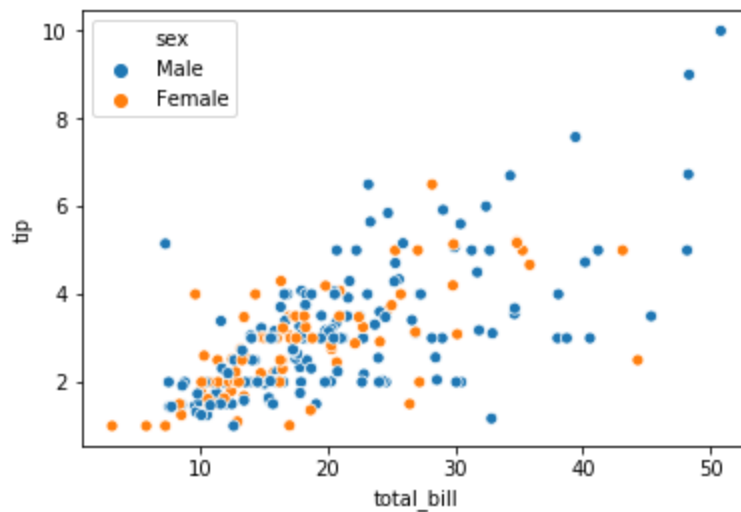


```
In [9]: sns.scatterplot(tips["total_bill"], tips["tip"])
```
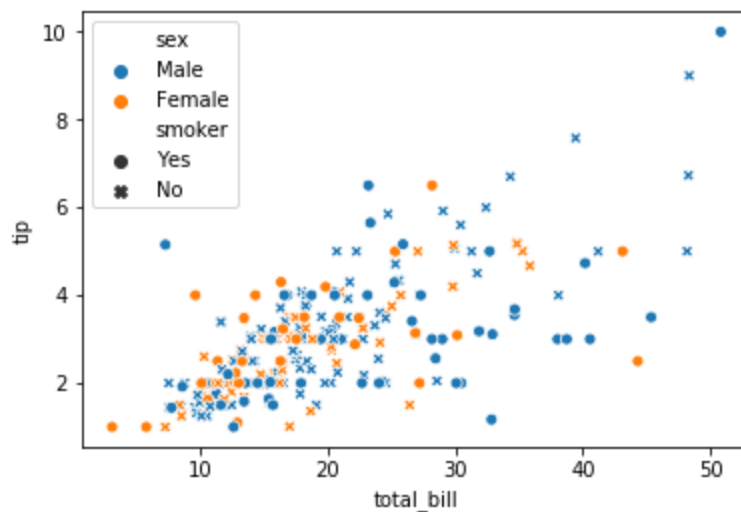
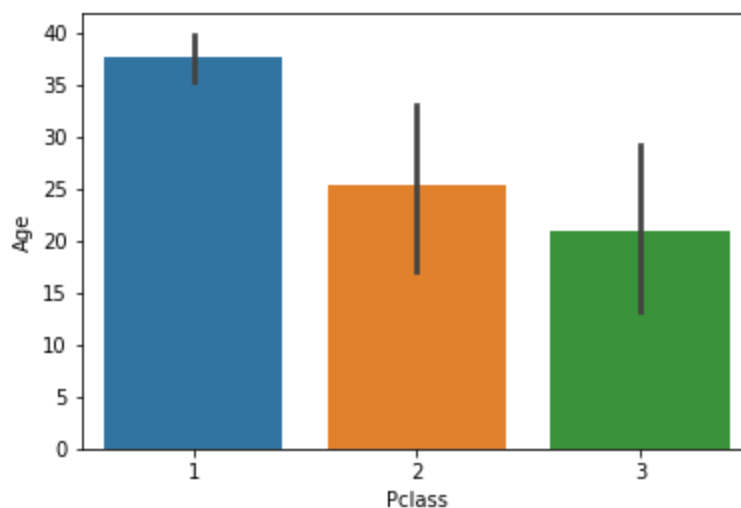Out[9]: <matplotlib.axes._subplots.AxesSubplot at 0x7f90d4b3fb50>

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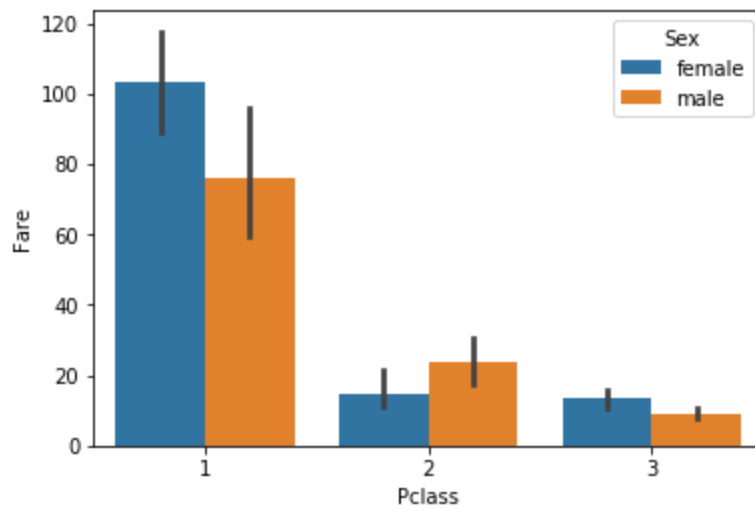


```
In [11]: sns.scatterplot(tips["total_bill"], tips["tip"], hue=tips["sex"], style=tips['s
         moker'])
         plt.show()
```



```
In [12]: sns.barplot(data['Pclass'], data['Age'])
         plt.show()
```
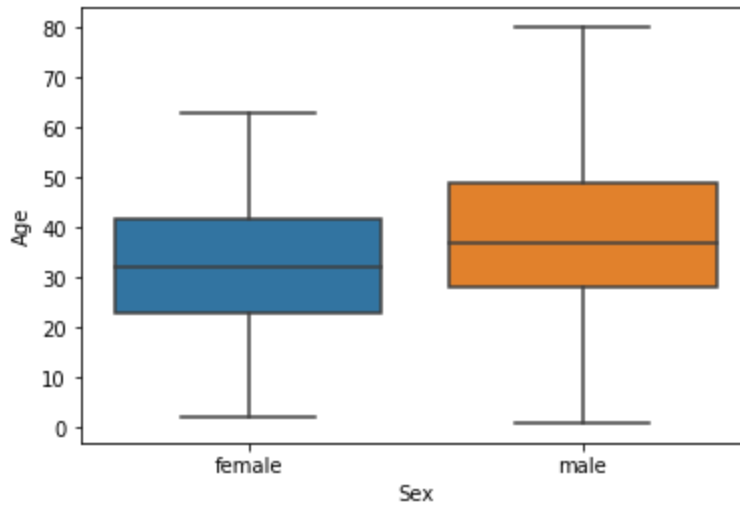
```
In [13]: sns.barplot(data['Pclass'], data['Fare'], hue = data["Sex"])
         plt.show()
```
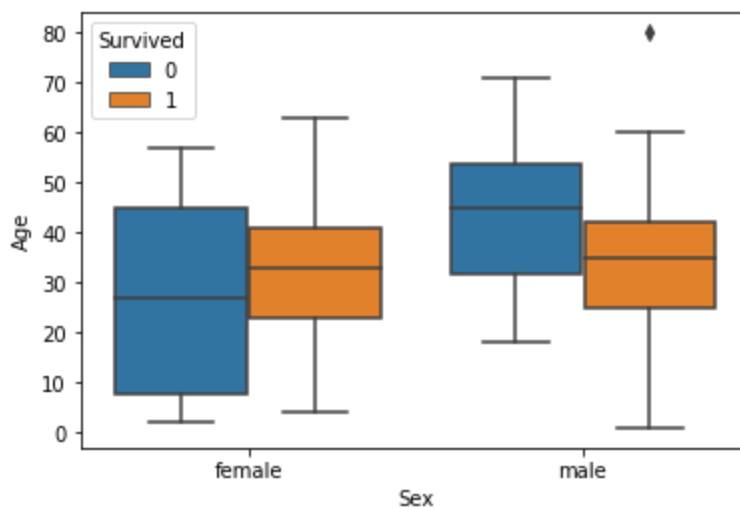


```
In [14]: sns.boxplot(data['Sex'], data["Age"])
```
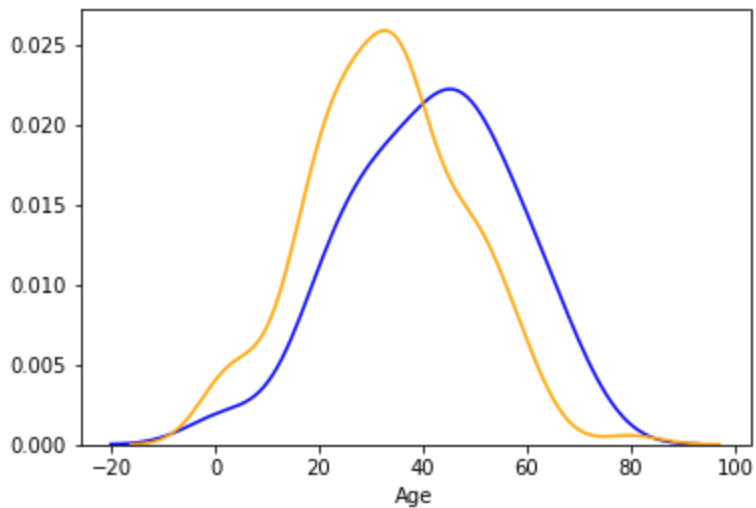
```
Out[14]: <matplotlib.axes._subplots.AxesSubplot at 0x7f90d4a636d0>
```



```
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()
```
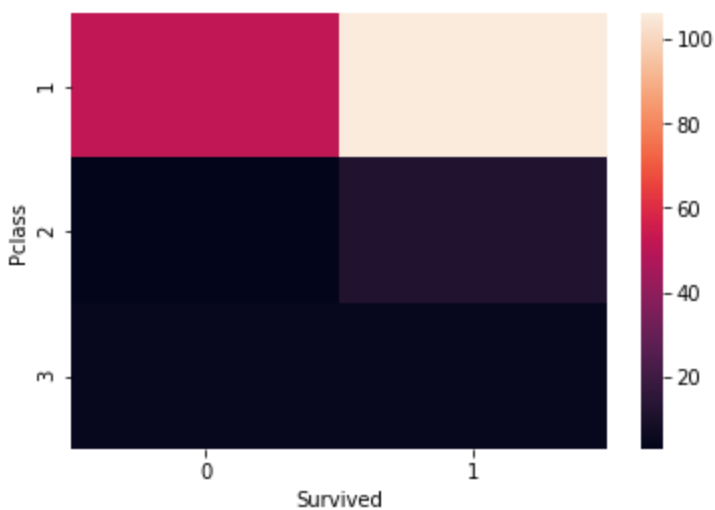


```
In [18]: pd.crosstab(data['Pclass'], data['Survived'])
```

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()
```