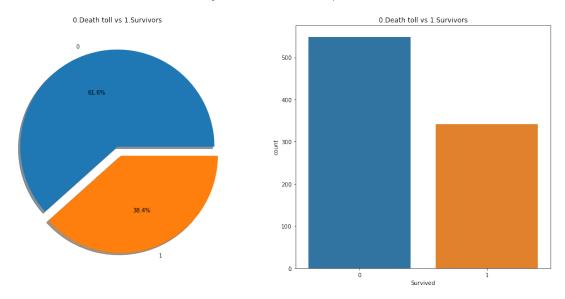
Titanic

July 30, 2021

```
[10]: import pandas as pd
      import matplotlib.pyplot as plt
      import seaborn as sns
[11]: | this = pd.read_csv('./data/train.csv')
[12]: f, ax = plt.subplots(1, 2, figsize=(18, 8))
      series = this['Survived'].value_counts()
      series.plot.pie(explode=[0, 0.1], autopct='%1.1f\%', ax=ax[0], shadow=True)
      ax[0].set_title('0.Death toll vs 1.Survivors')
      ax[0].set_ylabel('')
      ax[1].set_title('0.Death toll vs 1.Survivors')
      sns.countplot('Survived', data=this, ax=ax[1])
      f.suptitle('Percentage between Death and Survivor Graph')
     /opt/conda/lib/python3.9/site-packages/seaborn/_decorators.py:36: FutureWarning:
     Pass the following variable as a keyword arg: x. From version 0.12, the only
     valid positional argument will be `data`, and passing other arguments without an
     explicit keyword will result in an error or misinterpretation.
       warnings.warn(
[12]: Text(0.5, 0.98, 'Percentage between Death and Survivor Graph')
```



```
[14]: this['Survival Results'] = this['Survived'].replace(0, 'Death toll').replace(1, □ 

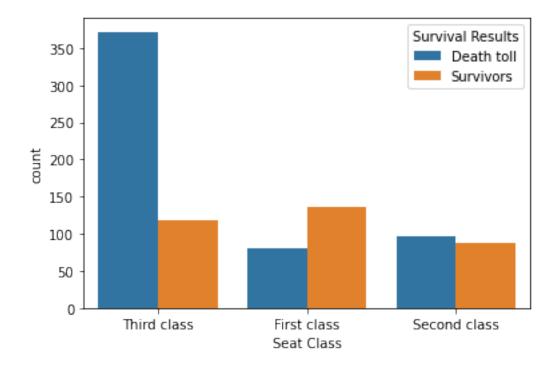
→'Survivors')

this['Seat Class'] = this['Pclass'].replace(1, 'First class').replace(2, □ 

→'Second class').replace(3, 'Third class')

sns.countplot(data=this, x='Seat Class', hue='Survival Results')
```

[14]: <AxesSubplot:xlabel='Seat Class', ylabel='count'>



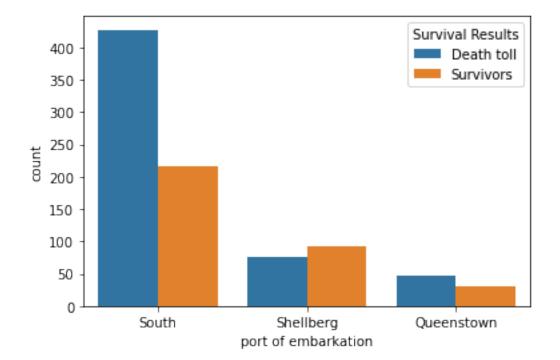
```
[15]: this['Survival Results'] = this['Survived'].replace(0, 'Death toll').replace(1, □ → 'Survivors')

this['port of embarkation'] = this['Embarked'].replace('C', 'Shellberg').

→replace('S', 'South').replace('Q', 'Queenstown')

sns.countplot(data=this, x='port of embarkation', hue='Survival Results')
```

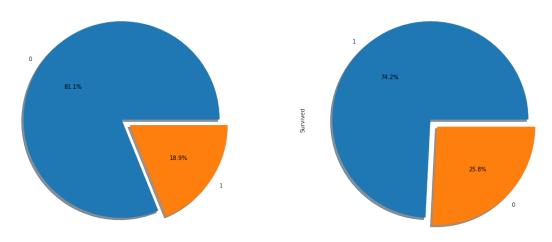
[15]: <AxesSubplot:xlabel='port of embarkation', ylabel='count'>



[16]: Text(0.5, 0.98, 'Gender-specific survival rates')

survival rate of men 0.Death toll vs 1.Survivors

survival rate of women 0.Death toll vs 1.Survivors



[17]: <AxesSubplot:xlabel='Seat Class', ylabel='count'>

