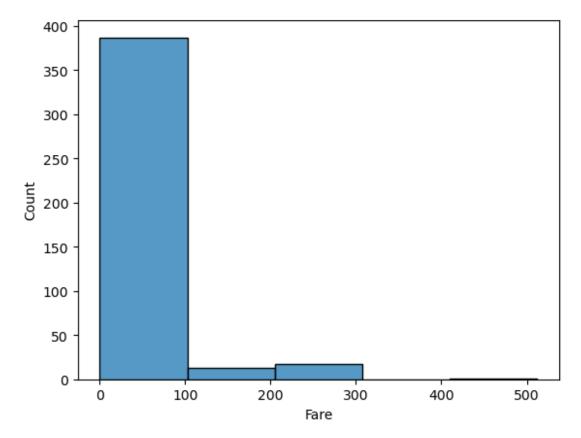
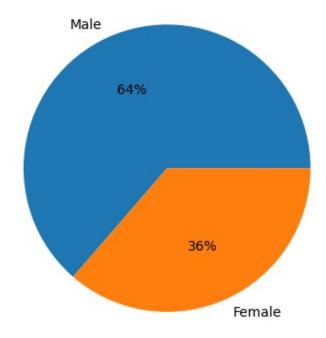
```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
df=pd.read csv("tested.csv")
df
                            Pclass \
     PassengerId Survived
0
             892
                                  3
                                  3
1
             893
                          1
                                  2
2
             894
                          0
3
             895
                          0
                                  3
                                  3
4
                          1
             896
                                  3
413
            1305
                          0
                                  1
414
            1306
                          1
415
            1307
                          0
                                  3
416
            1308
                          0
                                  3
                                  3
417
            1309
                          0
                                               Name
                                                        Sex
                                                              Age SibSp
Parch \
                                  Kelly, Mr. James
                                                       male 34.5
                                                                        0
0
1
                 Wilkes, Mrs. James (Ellen Needs)
                                                     female 47.0
                                                                        1
0
2
                         Myles, Mr. Thomas Francis
                                                       male 62.0
                                                                        0
0
3
                                  Wirz, Mr. Albert
                                                       male 27.0
                                                                        0
0
4
     Hirvonen, Mrs. Alexander (Helga E Lindqvist)
                                                     female 22.0
                                                                        1
1
. .
                                Spector, Mr. Woolf
413
                                                       male
                                                              NaN
                                                                        0
0
                     Oliva y Ocana, Dona. Fermina
414
                                                    female 39.0
                                                                        0
415
                     Saether, Mr. Simon Sivertsen
                                                       male
                                                             38.5
                                                                        0
0
416
                               Ware, Mr. Frederick
                                                                        0
                                                       male
                                                              NaN
417
                          Peter, Master. Michael J
                                                       male
                                                              NaN
                                                                        1
1
                 Ticket
                              Fare Cabin Embarked
0
                 330911
                            7.8292
                                     NaN
                                                 Q
                                                 S
                            7.0000
1
                 363272
                                     NaN
2
                                                 0
                 240276
                            9.6875
                                     NaN
```

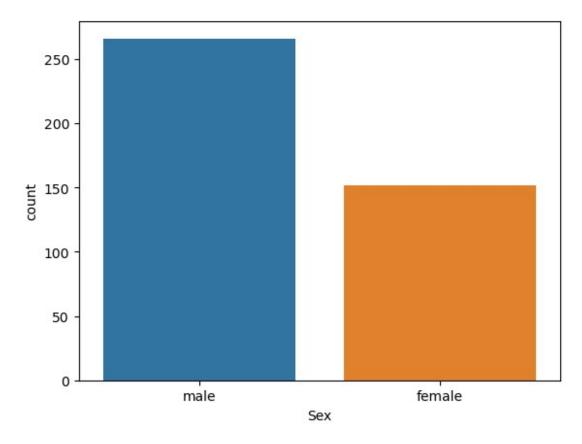
```
S
3
                  315154
                             8.6625
                                      NaN
                                                  Š
4
                 3101298
                            12.2875
                                      NaN
                                      . . .
                                                  S
413
              A.5. 3236
                             8.0500
                                      NaN
                                                  C
414
                PC 17758
                          108.9000
                                     C105
     SOTON/0.Q. 3101262
                                                  S
415
                             7.2500
                                      NaN
                  359309
                                                  S
416
                             8.0500
                                      NaN
417
                                                  C
                    2668
                           22.3583
                                      NaN
[418 rows x 12 columns]
df.isnull().sum()
PassengerId
                  0
Survived
                  0
Pclass
                  0
Name
                  0
                  0
Sex
Age
                 86
SibSp
                  0
                  0
Parch
Ticket
                  0
Fare
                  1
Cabin
                327
Embarked
                  0
dtype: int64
df.fillna(method='bfill',inplace=True)
df.isnull().sum()
PassengerId
                0
Survived
                0
Pclass
                0
Name
                0
Sex
                0
                0
Age
SibSp
                0
Parch
                0
Ticket
                0
Fare
                0
Cabin
                0
Embarked
                0
dtype: int64
sns.histplot(data=df,x='Fare',bins=5)
<Axes: xlabel='Fare', ylabel='Count'>
```





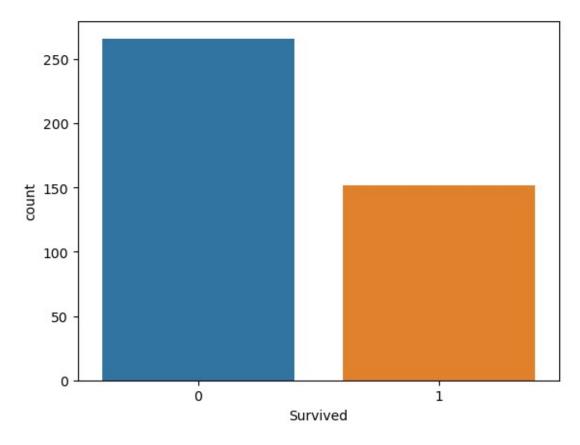
sns.countplot(data=df, x='Sex')

<Axes: xlabel='Sex', ylabel='count'>



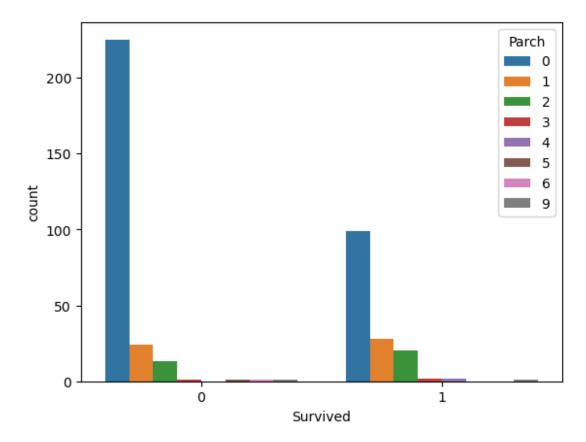
sns.countplot(data=df, x='Survived')

<Axes: xlabel='Survived', ylabel='count'>



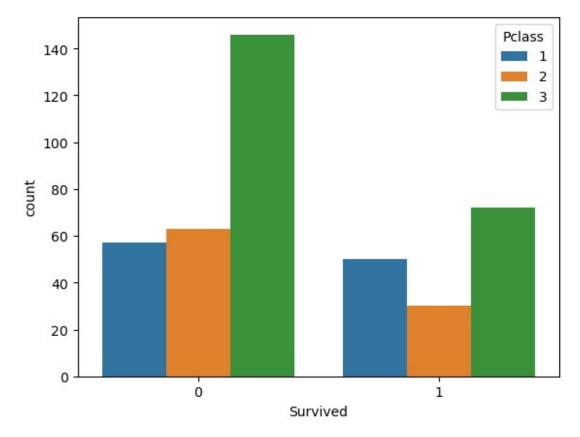
sns.countplot(data=df, x='Survived', hue='Parch')

<Axes: xlabel='Survived', ylabel='count'>



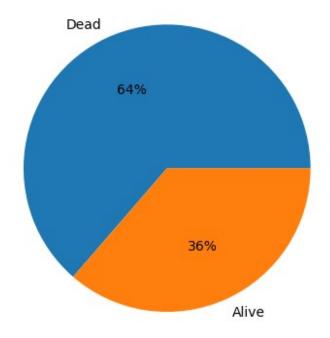
sns.countplot(data=df, x='Survived', hue='Pclass')

<Axes: xlabel='Survived', ylabel='count'>



```
plt.pie(df['Survived'].value_counts(),labels=["Dead",
   "Alive"],autopct='%.0f%%')

([<matplotlib.patches.Wedge at 0x1932862a380>,
   <matplotlib.patches.Wedge at 0x1932862a290>],
   [Text(-0.45695648023571717, 1.000595210447554, 'Dead'),
    Text(0.4569564802357173, -1.000595210447554, 'Alive')],
   [Text(-0.24924898921948208, 0.5457792056986657, '64%'),
   Text(0.24924898921948213, -0.5457792056986657, '36%')])
```



df['Survived'].value\_counts()

0 266 1 152 Name: Survived, dtype: int64