In [4]:
```python
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
from seaborn import load_dataset
data = pd.read_csv("train.csv")
tips = load_dataset("tips")
```
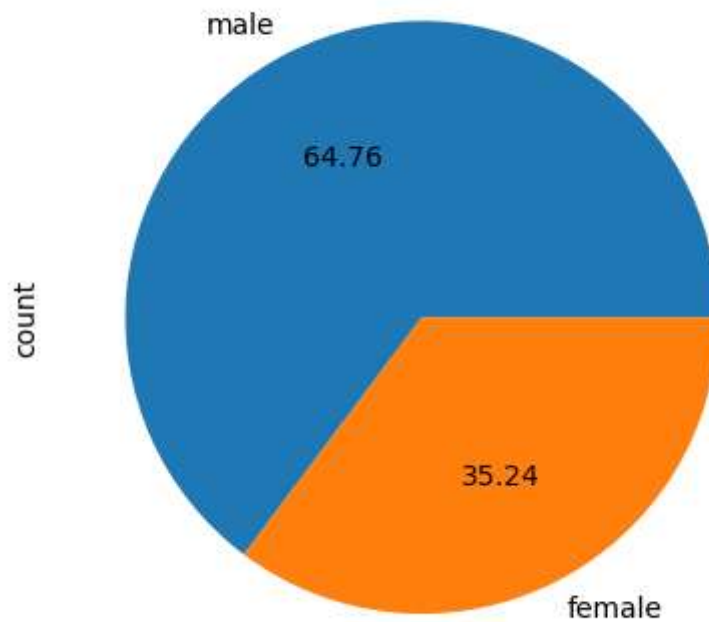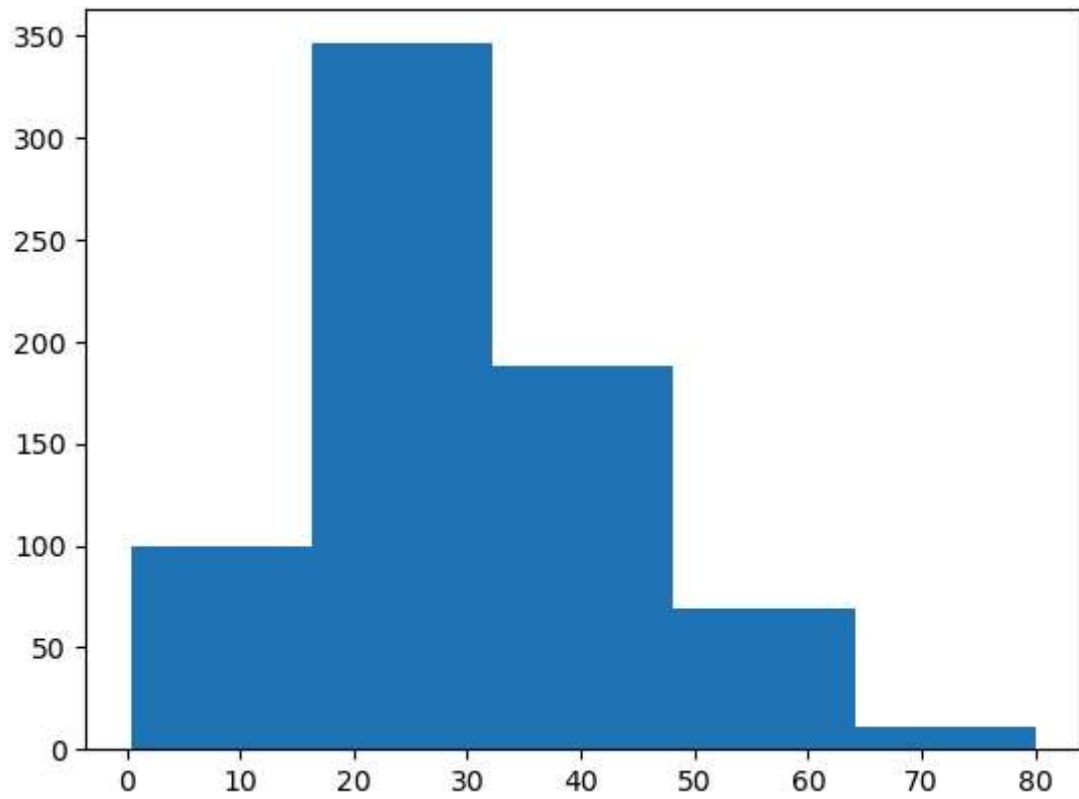
In [7]:
```python
data['Sex'].value_counts().plot(kind="pie", autopct="%.2f")
plt.show()
```

In [8]:
```python
plt.hist(data['Age'], bins=5)
plt.show()
```

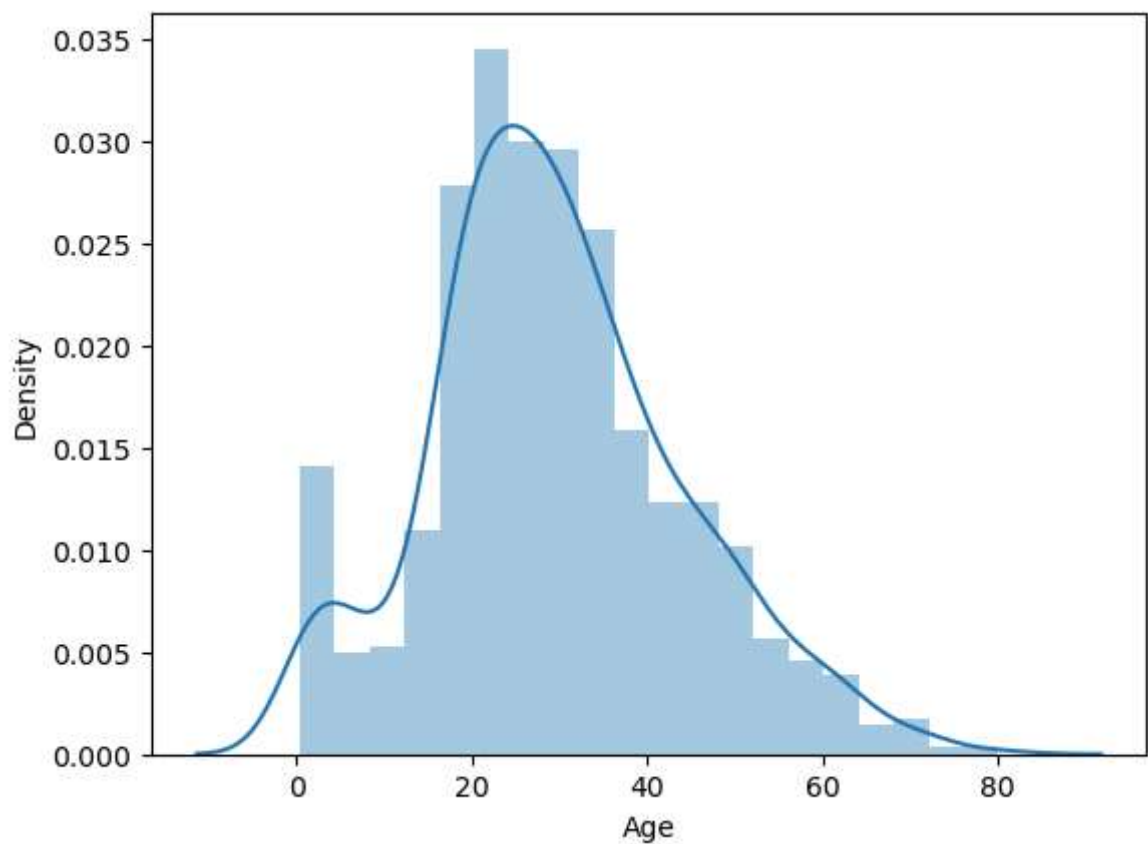In [9]:
```python
sns.distplot(data['Age'])
plt.show()
```

C:\Users\ksksh\AppData\Local\Temp\ipykernel_13116\3447316595.py:1: UserWarning:

`distplot` is a deprecated function and will be removed in seaborn v0.14.0.

Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).
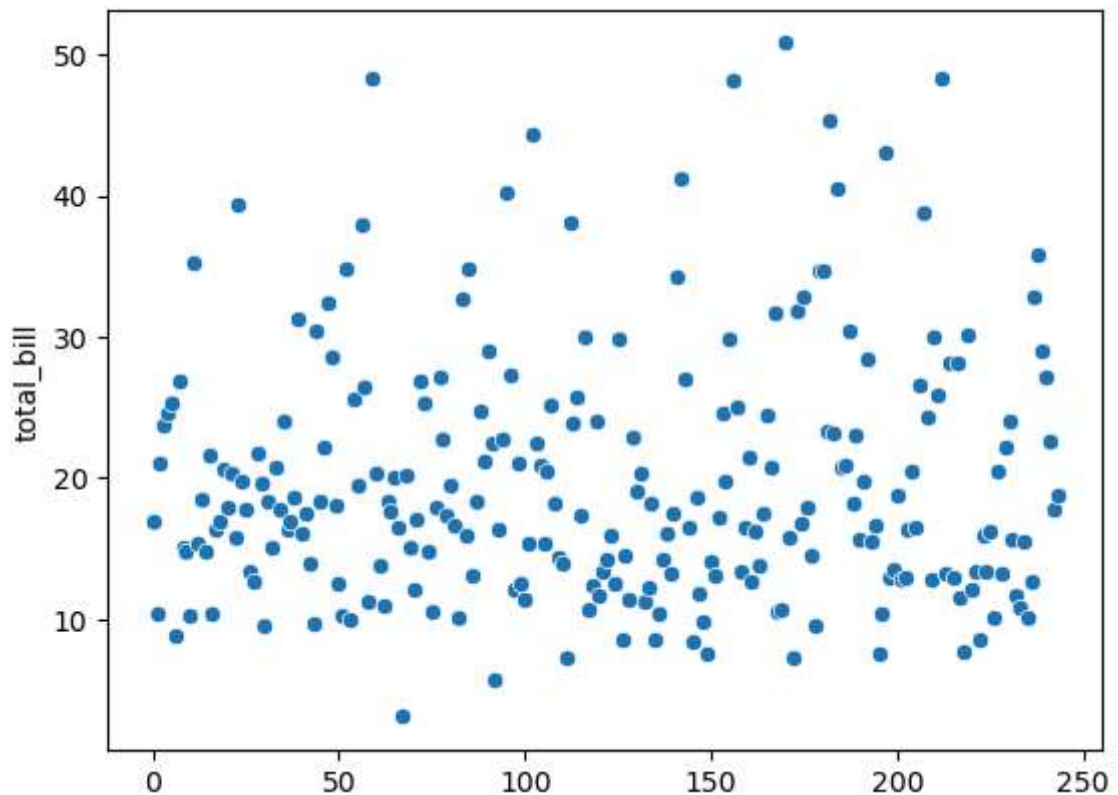
For a guide to updating your code to use the new functions, please see https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751 (https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751)

  sns.distplot(data['Age'])

In [15]:
```python
sns.scatterplot(tips["total_bill"])
```

Out[15]: `<Axes: ylabel='total_bill'>`

In [27]:
```python
x=tips["total_bill"]
y= tips["tip"]
sns.scatterplot(x, y, hue=tips["sex"])
plt.show()
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[27], line 3
      1 x=tips["total_bill"]
      2 y= tips["tip"]
----> 3 sns.scatterplot(x, y, hue=tips["sex"])
      4 plt.show()

TypeError: scatterplot() takes from 0 to 1 positional arguments but 2 positio
nal arguments (and 1 keyword-only argument) were given
```
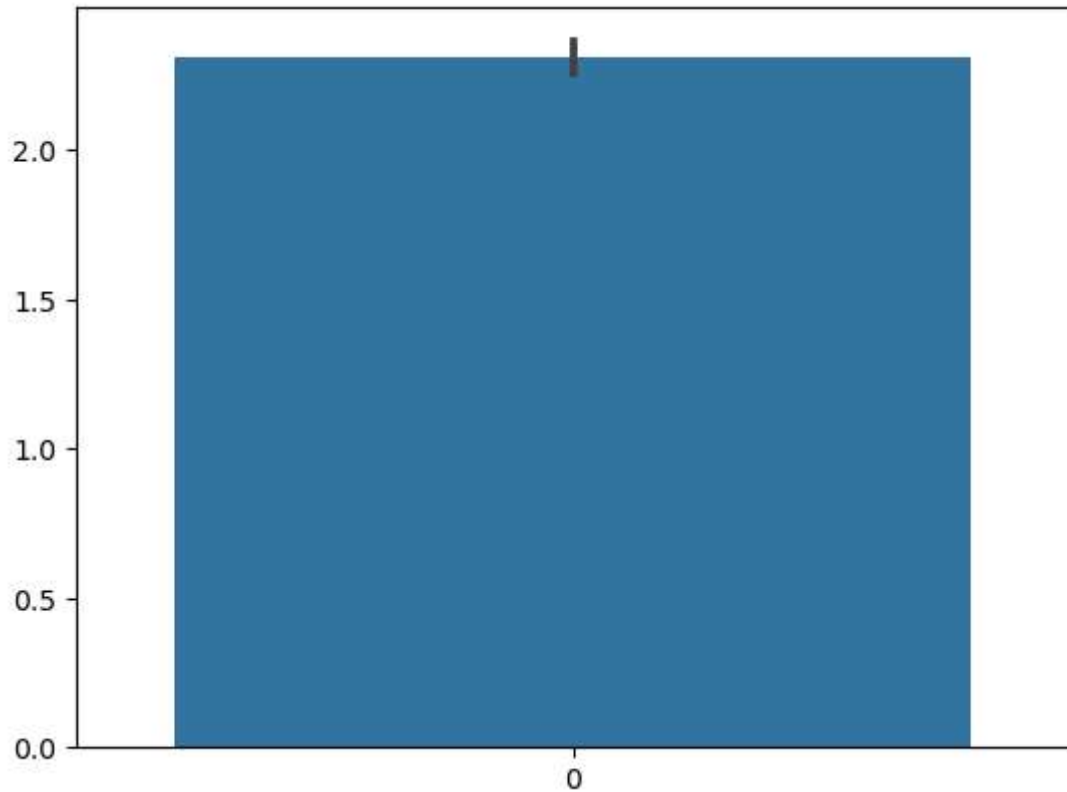
In [29]:
```python
sns.barplot(data['Pclass'])
plt.show()
```


In [30]:
```python
sns.barplot(data['Pclass'], data['Fare'], hue = data["Sex"])
plt.show()
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[30], line 1
----> 1 sns.barplot(data['Pclass'], data['Fare'], hue = data["Sex"])
      2 plt.show()

TypeError: barplot() takes from 0 to 1 positional arguments but 2 positional
arguments (and 1 keyword-only argument) were given
```

In [31]:
```python
sns.boxplot(data['Sex'], data["Age"], data["Survived"])
plt.show()
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[31], line 1
----> 1 sns.boxplot(data['Sex'], data["Age"], data["Survived"])
      2 plt.show()

TypeError: boxplot() takes from 0 to 1 positional arguments but 3 were given
```

In [32]:
```python
sns.distplot(data[data['Survived'] == 0]['Age'], hist=False, color="blue")
sns.distplot(data[data['Survived'] == 1]['Age'], hist=False, color="orange")
plt.show()
```

C:\Users\ksksh\AppData\Local\Temp\ipykernel_13116\4283065353.py:1: UserWarnin
g:

`distplot` is a deprecated function and will be removed in seaborn v0.14.0.

Please adapt your code to use either `displot` (a figure-level function with
similar flexibility) or `kdeplot` (an axes-level function for kernel density
plots).

For a guide to updating your code to use the new functions, please see
https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751 (https://gis
t.github.com/mwaskom/de44147ed2974457ad6372750bbe5751)
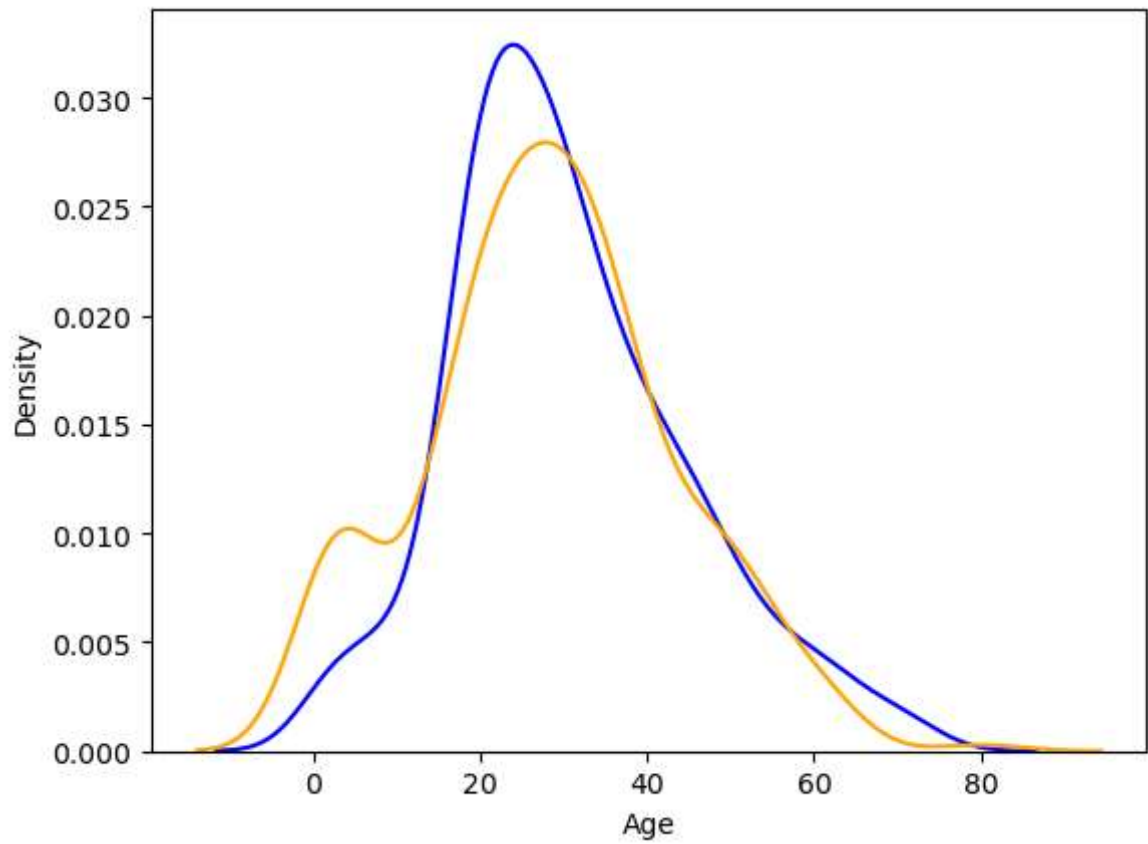
  sns.distplot(data[data['Survived'] == 0]['Age'], hist=False, color="blue")
C:\Users\ksksh\AppData\Local\Temp\ipykernel_13116\4283065353.py:2: UserWarnin
g:

`distplot` is a deprecated function and will be removed in seaborn v0.14.0.

Please adapt your code to use either `displot` (a figure-level function with
similar flexibility) or `kdeplot` (an axes-level function for kernel density
plots).

For a guide to updating your code to use the new functions, please see
https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751 (https://gis
t.github.com/mwaskom/de44147ed2974457ad6372750bbe5751)

  sns.distplot(data[data['Survived'] == 1]['Age'], hist=False, color="orang
e")

In [33]: `pd.crosstab(data['Pclass'], data['Survived'])`

Out[33]:

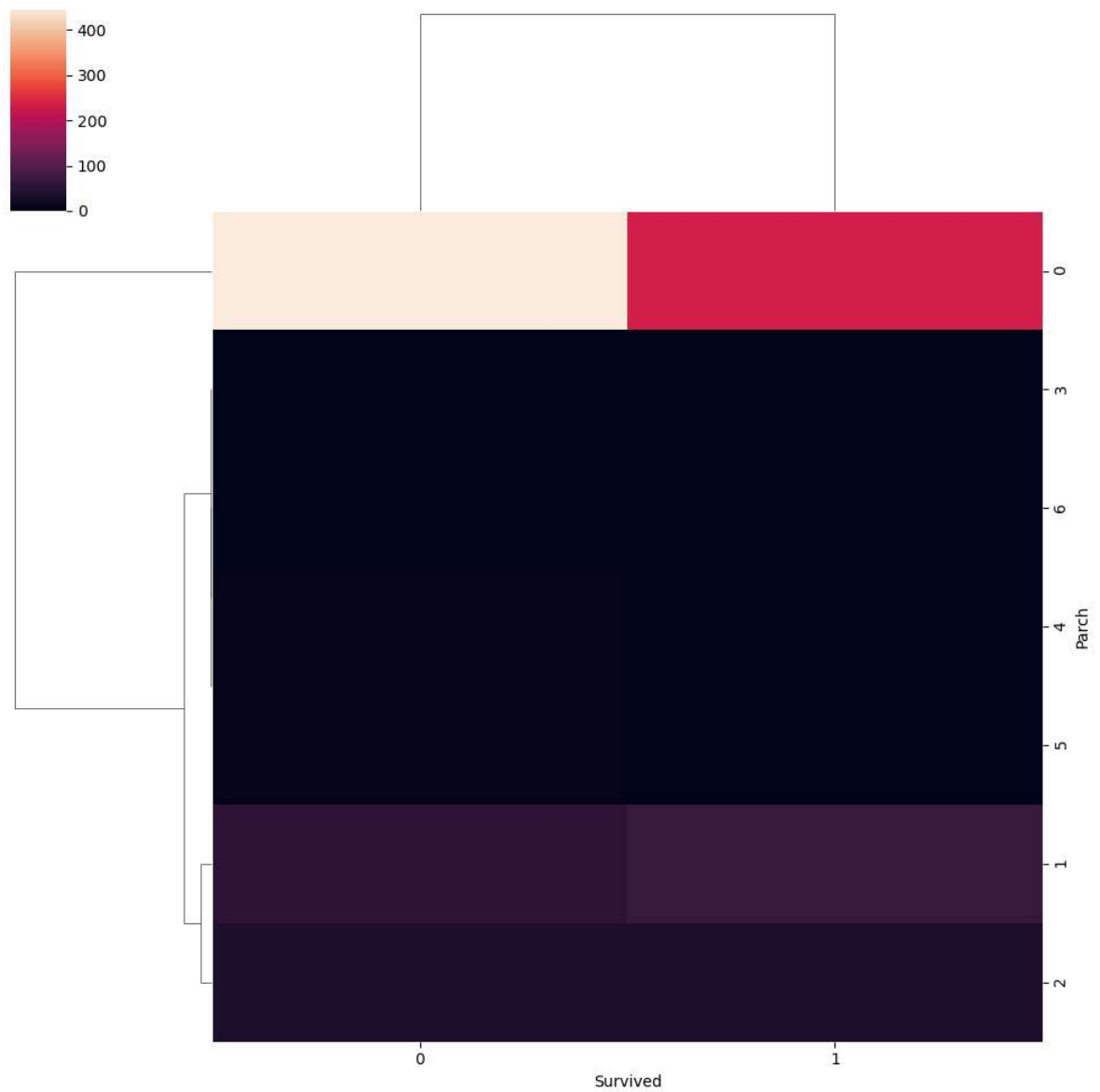| Survived	0	1
Pclass		
1	80	136
2	97	87
3	372	119

In [34]: `sns.heatmap(pd.crosstab(data['Pclass'], data['Survived']))`

Out[34]: `<Axes: xlabel='Survived', ylabel='Pclass'>`
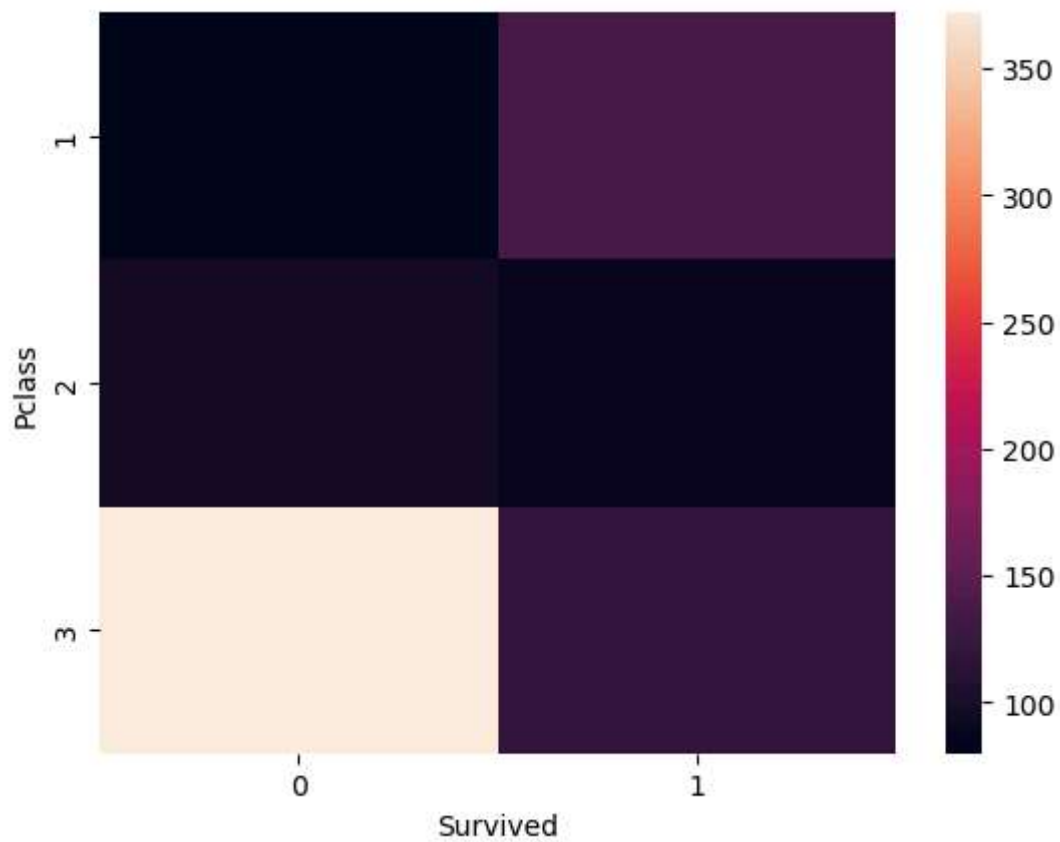
In [35]:
```python
sns.clustermap(pd.crosstab(data['Parch'], data['Survived']))
plt.show()
```


In [ ]: