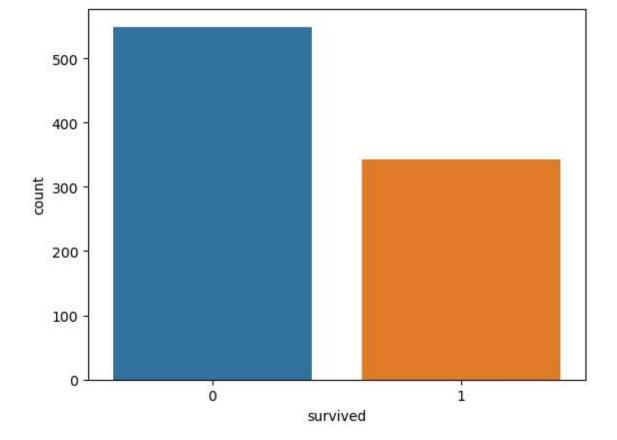
```
In [1]:
          import pandas as pd
          import numpy as np
          import matplotlib.pyplot as plt
          import seaborn as sns
 In [2]:
          data=pd.read csv("/home/student/Desktop/Titanic1.csv")
 In [5]:
          from seaborn import load_dataset
In [15]:
          tips = load dataset("tips")
          tips
                                                   time size
Out[15]:
               total_bill
                        tip
                                sex smoker
                                             day
            0
                  16.99 1.01 Female
                                             Sun Dinner
                                                           2
                                        No
                  10.34 1.66
                               Male
                                             Sun Dinner
                                                            3
                                        No
            2
                  21.01 3.50
                               Male
                                        No
                                             Sun Dinner
                                                           3
                  23.68 3.31
                               Male
                                        No
                                             Sun Dinner
                                                            2
            4
                  24.59 3.61 Female
                                        No
                                             Sun Dinner
                                                           4
            •••
          239
                  29.03 5.92
                                              Sat Dinner
                                                           3
                               Male
                                        No
          240
                                                            2
                  27.18 2.00 Female
                                        Yes
                                              Sat Dinner
          241
                  22.67 2.00
                                                           2
                               Male
                                        Yes
                                              Sat Dinner
          242
                  17.82 1.75
                               Male
                                        No
                                              Sat Dinner
          243
                                                           2
                  18.78 3.00 Female
                                        No Thur Dinner
         244 rows × 7 columns
```

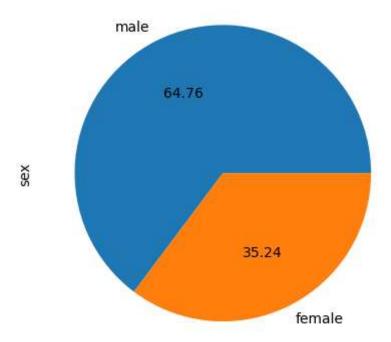
In [7]: data.head()

Out[7]: sex age sibsp parch fare embarked class who alone survived 0 male 22.0 7.2500 S Third 0 1 0 man False 1 female 38.0 0 71.2833 First woman False 1 **2** female 26.0 0 7.9250 1 S Third woman True **3** female 35.0 0 53.1000 False 1 First woman male 35.0 0 8.0500 S Third man True 0

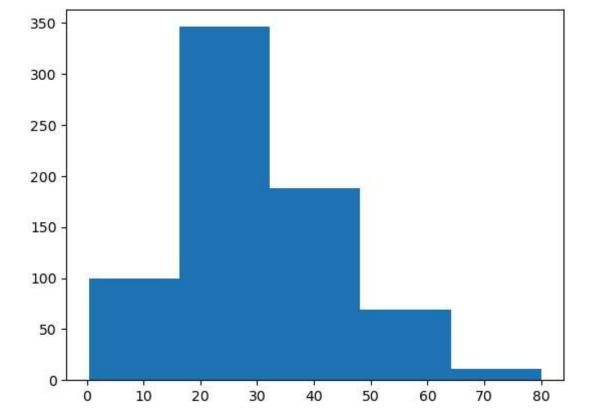
```
In [13]: sns.countplot(x ='survived',data=data)
plt.show()
```



In [9]: data['sex'].value_counts().plot(kind="pie", autopct="%.2f")
 plt.show()



```
In [10]: plt.hist(data['age'], bins=5)
   plt.show()
```



```
In [11]: sns.distplot(data['age'])
   plt.show()
```

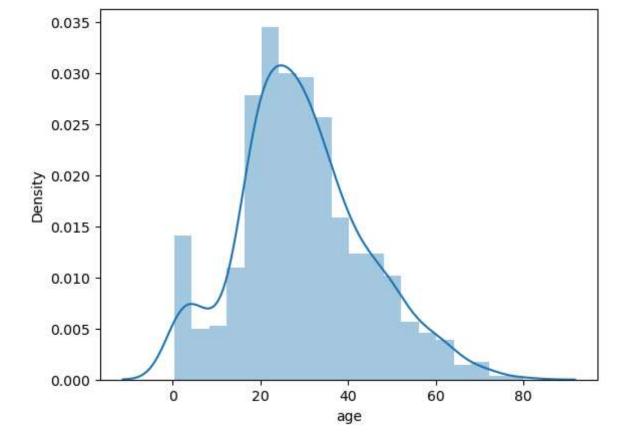
/tmp/ipykernel_7454/3668578308.py:1: UserWarning:

`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).

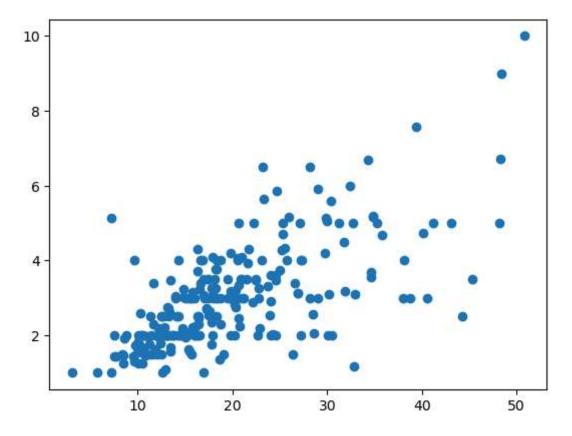
For a guide to updating your code to use the new functions, please see https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751

sns.distplot(data['age'])

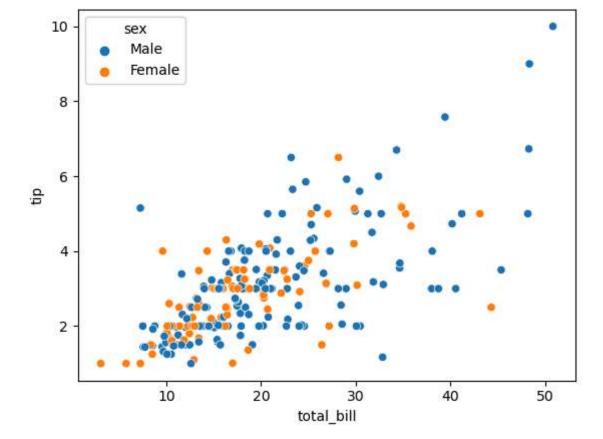


In [16]: plt.scatter(tips["total_bill"], tips["tip"])

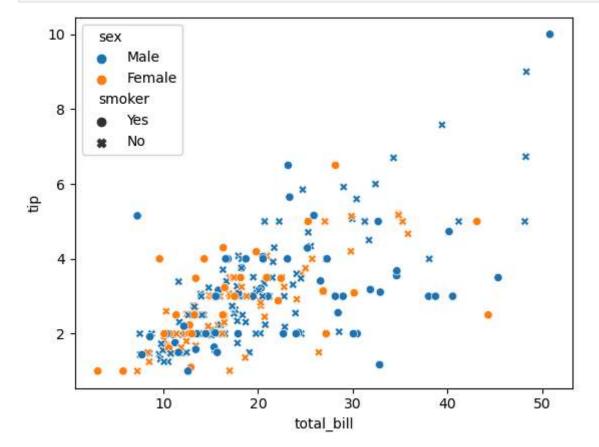
 ${\tt Out[16]:} \verb| <matplotlib.collections.PathCollection| at 0x7f549c0e1420 > \\$



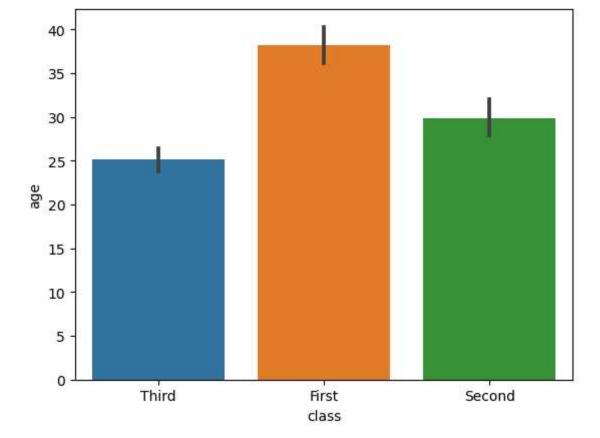
```
In [22]: sns.scatterplot(data=tips, x="total_bill", y="tip", hue=tips["sex"])
    plt.show()
```



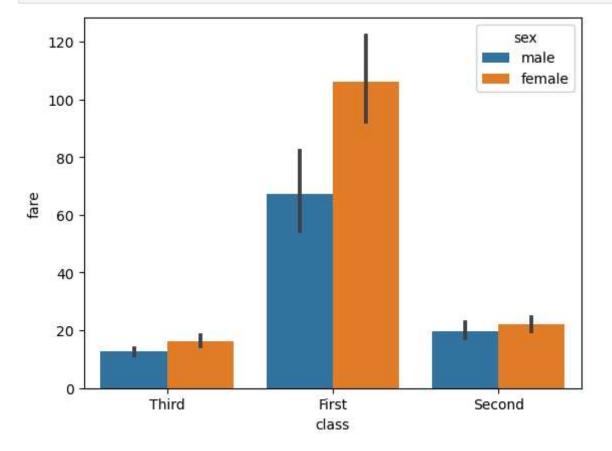
In [24]: sns.scatterplot(x="total_bill", y="tip", hue=tips["sex"], style=tips['smoker'],data=tips)
 plt.show()



```
In [32]: sns.barplot(x='class', y='age', data=data)
   plt.show()
```

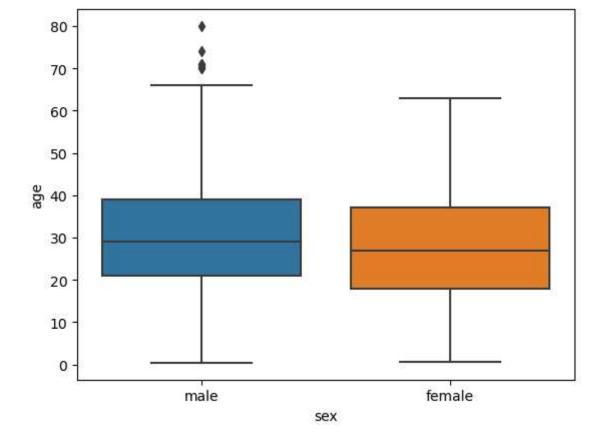


In [34]: sns.barplot(x='class', y='fare',data=data, hue = data["sex"])
plt.show()

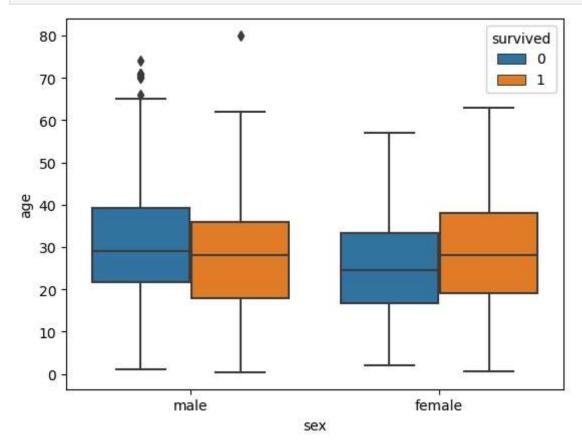


```
In [37]: sns.boxplot(x='sex',y="age",data=data)
```

Out[37]: <Axes: xlabel='sex', ylabel='age'>



```
In [44]: sns.boxplot(x='sex', y="age",hue="survived",data=data)
  plt.show()
```



```
In [48]: sns.distplot(data[data['survived'] == 0]['age'], hist=False, color="blue")
    sns.distplot(data[data['survived'] == 1]['age'], hist=False, color="orange")
    plt.show()
```

/tmp/ipykernel_7454/1485369868.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 `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

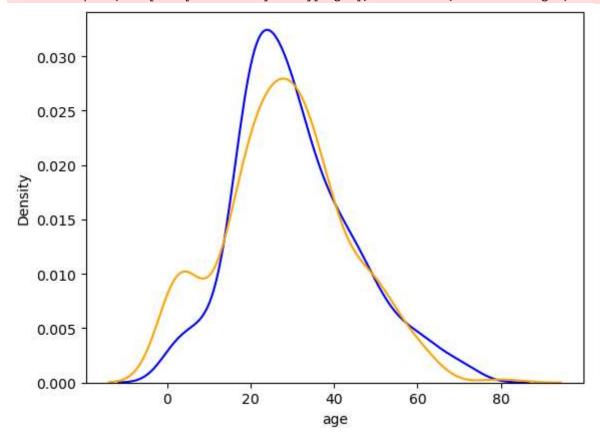
sns.distplot(data[data['survived'] == 0]['age'], hist=False, color="blue")
/tmp/ipykernel_7454/1485369868.py:2: UserWarning:

`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 `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

sns.distplot(data[data['survived'] == 1]['age'], hist=False, color="orange")



```
In [51]: pd.crosstab(data['class'], data['survived'])
```

```
Out[51]: survived 0 1

class

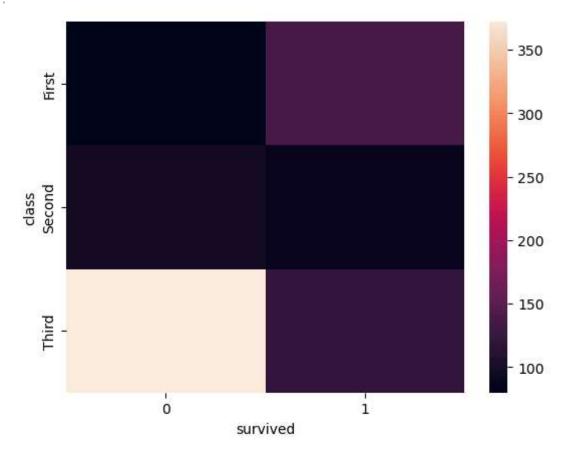
First 80 136

Second 97 87

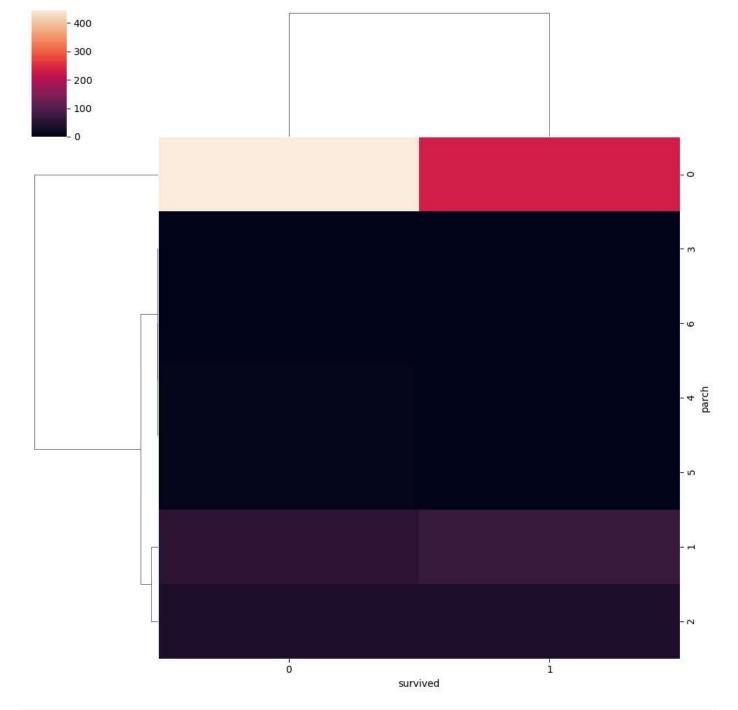
Third 372 119
```

```
In [52]: sns.heatmap(pd.crosstab(data['class'], data['survived']))
```

Out[52]: <Axes: xlabel='survived', ylabel='class'>



```
In [53]: sns.clustermap(pd.crosstab(data['parch'], data['survived']))
   plt.show()
```



In []: