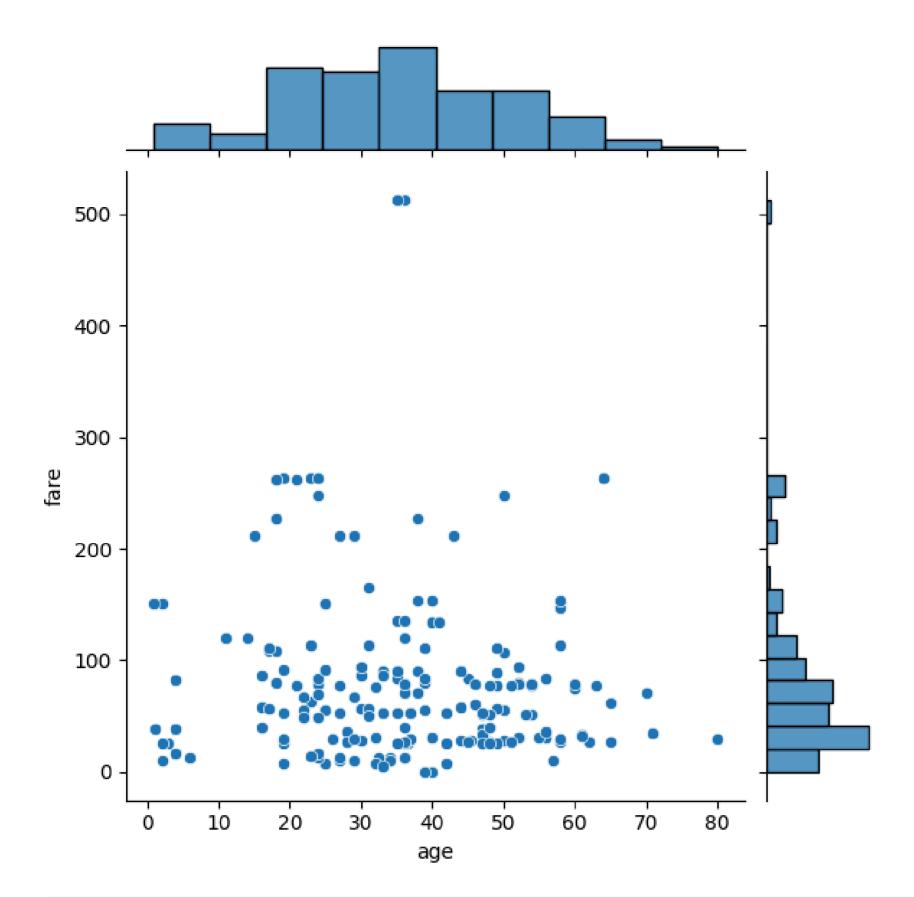
```
import numpy as np
         import matplotlib.pyplot as plt
         import seaborn as sns
In [2]: dataset = pd.read_csv('C:/Users/prajw/Desktop/Indexs/DSBDA print/Assignment 9 (Data Visualization II)/titanic.csv')
         dataset.head()
Out[2]:
                                sex age sibsp parch
            survived pclass
                                                           fare embarked class
                                                                                    who adult_male deck embark_town alive alone
         0
                   0
                               male 22.0
                                                                         S Third
                                                         7.2500
                                                                                                      NaN
                                                                                                            Southampton
                                                                                                                                 False
                                              1
                                                                                    man
                                                                                                True
                                                                                                                            no
         1
                   1
                             female 38.0
                                              1
                                                     0 71.2833
                                                                        C First woman
                                                                                                False
                                                                                                         C
                                                                                                               Cherbourg
                                                                                                                                 False
                                                                                                                            yes
         2
                                                                                                            Southampton
                   1
                          3 female 26.0
                                              0
                                                         7.9250
                                                                         S Third woman
                                                                                                False
                                                                                                      NaN
                                                                                                                                  True
                                                                                                                           yes
         3
                             female 35.0
                   1
                                              1
                                                     0 53.1000
                                                                         S First woman
                                                                                                False
                                                                                                            Southampton
                                                                                                                                 False
                                                                                                                            yes
         4
                   0
                               male 35.0
                                              0
                          3
                                                     0
                                                         8.0500
                                                                         S Third
                                                                                    man
                                                                                                True
                                                                                                      NaN
                                                                                                             Southampton
                                                                                                                            no
                                                                                                                                  True
         dataset.shape
In [3]:
Out[3]: (891, 15)
         dataset.isnull()
In [4]:
Out[4]:
                                      age sibsp parch fare embarked class who adult_male deck embark_town alive alone
              survived pclass
                                sex
           0
                  False
                         False False
                                     False
                                            False
                                                   False False
                                                                    False False
                                                                                             False
                                                                                                   True
                                                                                                                 False False
                                                                                                                              False
           1
                  False
                         False False False
                                            False
                                                   False False
                                                                    False False False
                                                                                                  False
                                                                                                                 False False
                                                                                                                              False
                                                                                            False
           2
                         False False False
                                                                    False False
                                                                                                   True
                                                                                                                 False False
                                                                                                                              False
                  False
                                            False
                                                   False False
                                                                                             False
           3
                                                                                            False False
                         False False
                                                                                                                 False False
                  False
                                     False
                                            False
                                                   False False
                                                                    False False False
                                                                                                                              False
            4
                                                                                                                 False False
                  False
                         False False False
                                            False
                                                   False False
                                                                    False False False
                                                                                             False
                                                                                                   True
                                                                                                                              False
                                            False
                                                   False False
         886
                         False False False
                                                                    False False
                                                                                                   True
                                                                                                                 False False
                                                                                                                              False
                  False
                                                                                            False
         887
                         False False False
                                                                                                                 False False
                  False
                                            False
                                                   False False
                                                                    False False False
                                                                                                  False
                                                                                                                              False
                                                                                             False
         888
                  False
                         False False
                                      True
                                            False
                                                   False False
                                                                    False False False
                                                                                             False
                                                                                                   True
                                                                                                                 False False
                                                                                                                              False
                                                                    False False False
         889
                  False
                         False False
                                     False
                                            False
                                                   False
                                                        False
                                                                                             False
                                                                                                  False
                                                                                                                 False False
                                                                                                                              False
         890
                                                                                            False True
                         False False False False False
                                                                    False False False
                                                                                                                 False False False
                  False
        891 rows × 15 columns
         dataset.isnull().sum()
In [5]:
Out[5]: survived
         pclass
                           0
         sex
                         177
         age
                           0
         sibsp
         parch
         fare
         embarked
         class
         who
                           0
         adult_male
         deck
                         688
         embark_town
                           2
         alive
         alone
                           0
         dtype: int64
         dataset = dataset.dropna()
In [6]:
In [7]: sns.jointplot(x='age', y='fare', data=dataset)
```

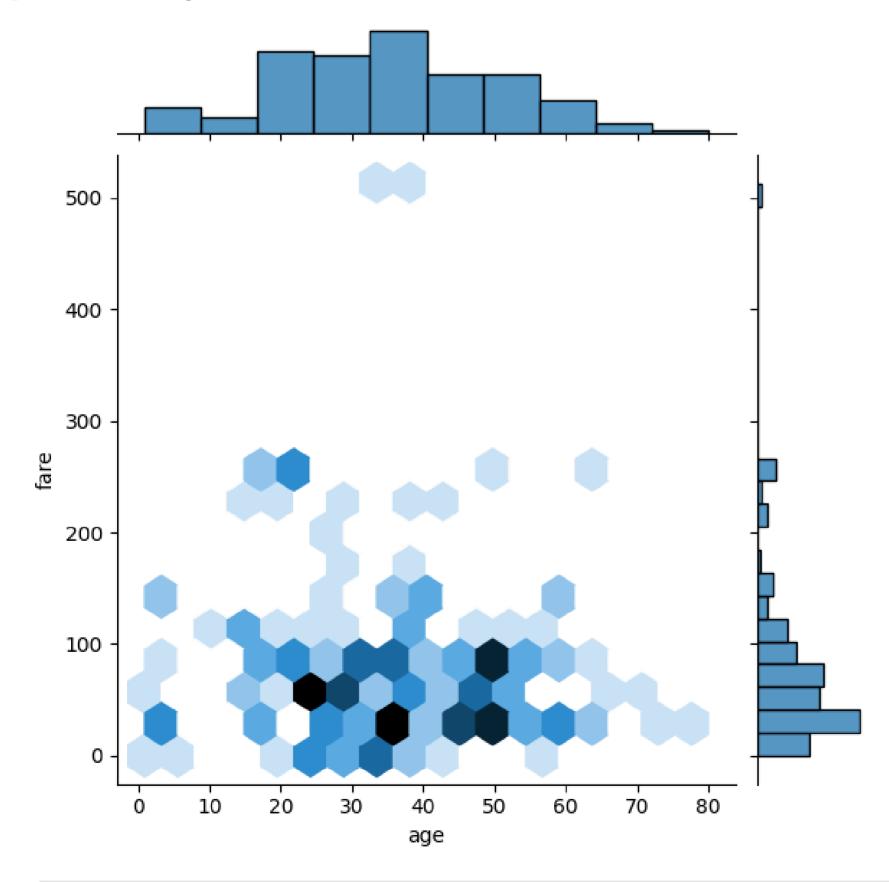
In [1]: import pandas as pd

Out[7]: <seaborn.axisgrid.JointGrid at 0x1f79bd2a690>



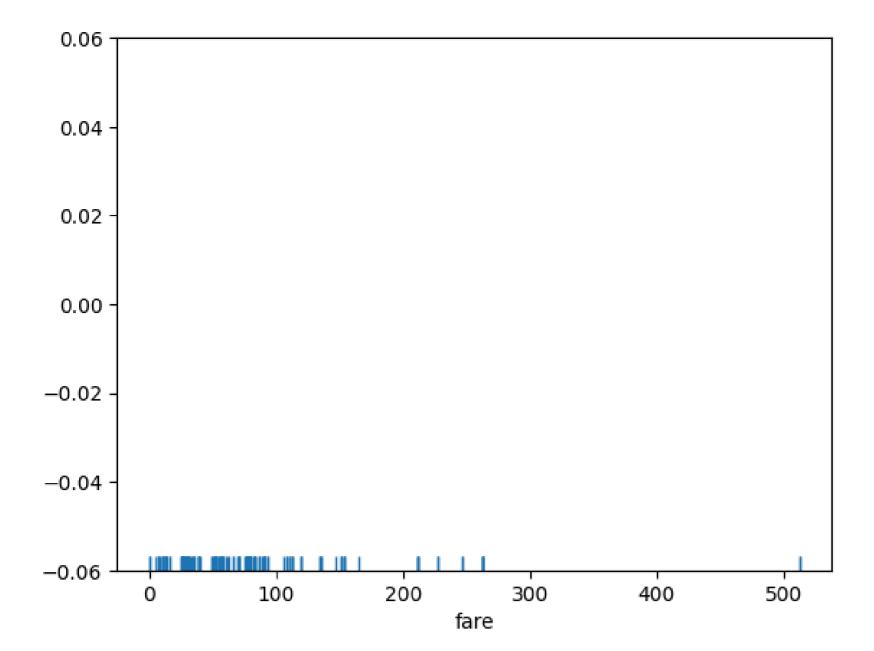
In [8]: sns.jointplot(x='age', y='fare', data=dataset, kind='hex')

Out[8]: <seaborn.axisgrid.JointGrid at 0x1f79a6406e0>



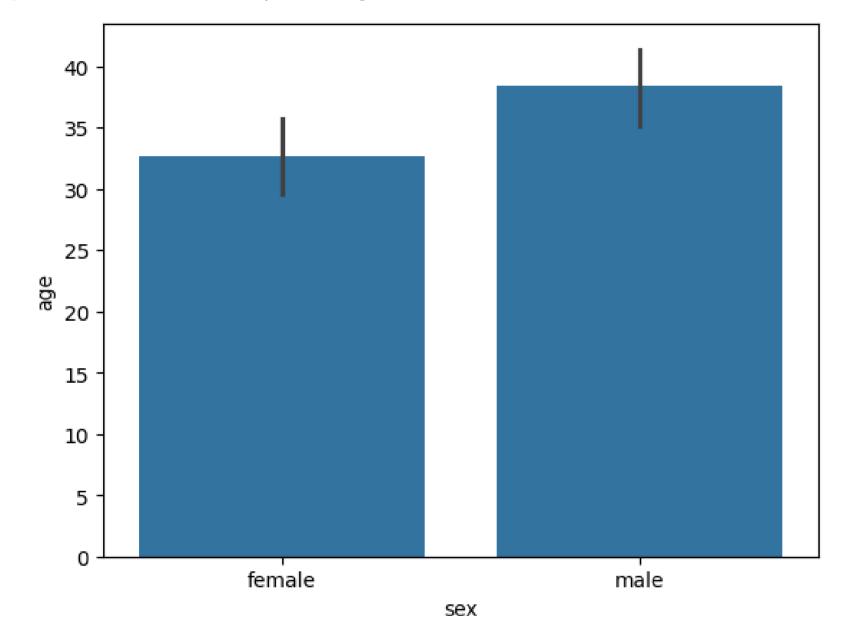
In [9]: sns.rugplot(dataset['fare'])

Out[9]: <Axes: xlabel='fare'>



```
In [10]: sns.barplot(x='sex', y='age', data=dataset)
```

Out[10]: <Axes: xlabel='sex', ylabel='age'>

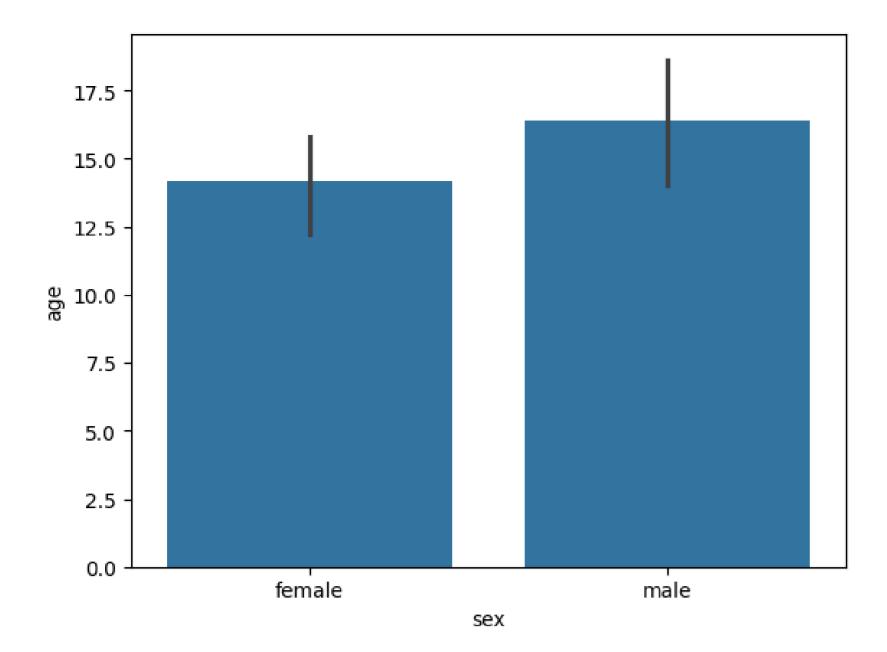


```
In []:

import numpy as np
   import matplotlib.pyplot as plt
   import seaborn as sns

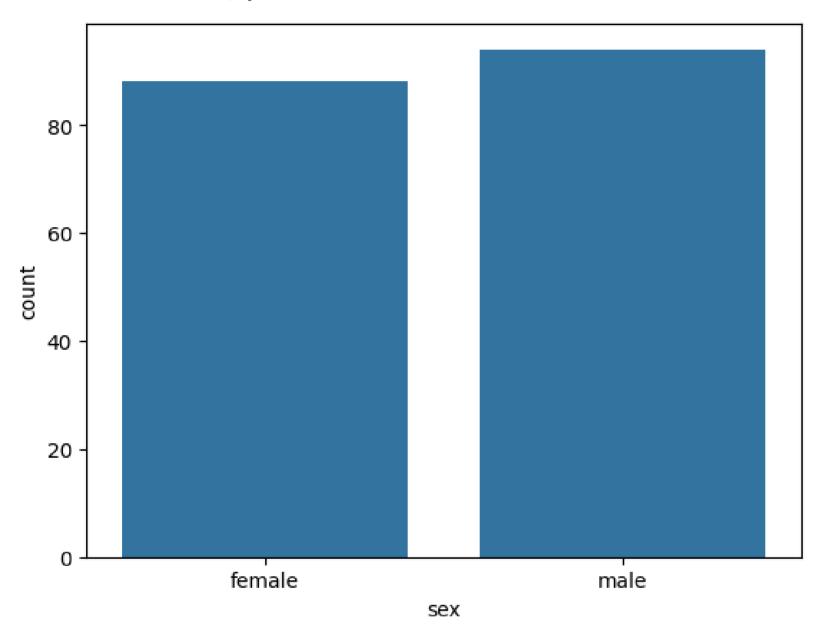
sns.barplot(x='sex', y='age', data=dataset, estimator=np.std)
```

Out[11]: <Axes: xlabel='sex', ylabel='age'>



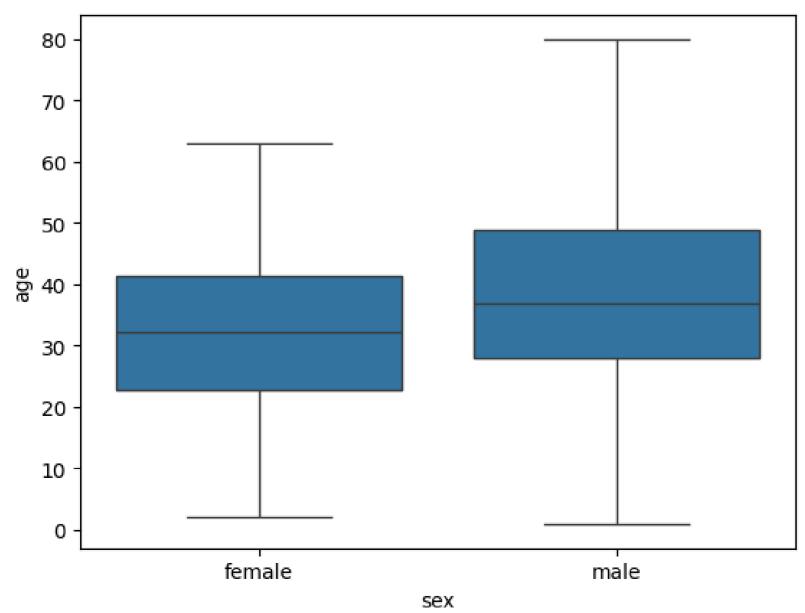
In [12]: sns.countplot(x='sex', data=dataset)

Out[12]: <Axes: xlabel='sex', ylabel='count'>



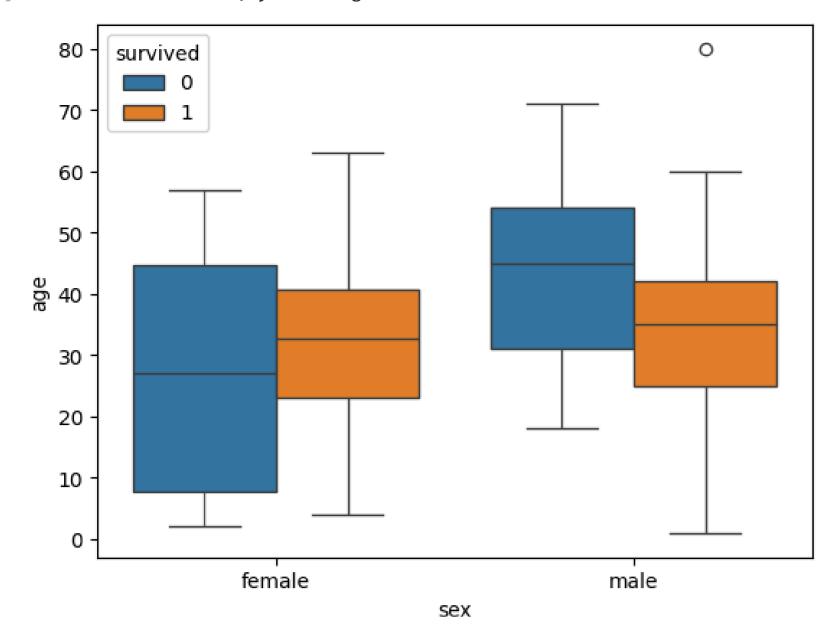
In [13]: sns.boxplot(x='sex', y='age', data=dataset)

Out[13]: <Axes: xlabel='sex', ylabel='age'>



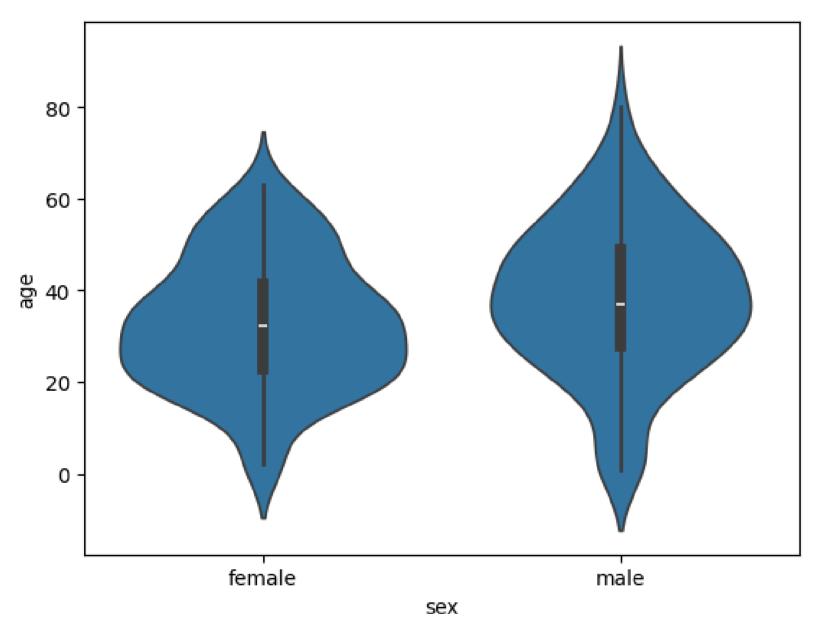
In [14]: sns.boxplot(x='sex', y='age', data=dataset, hue="survived")

Out[14]: <Axes: xlabel='sex', ylabel='age'>



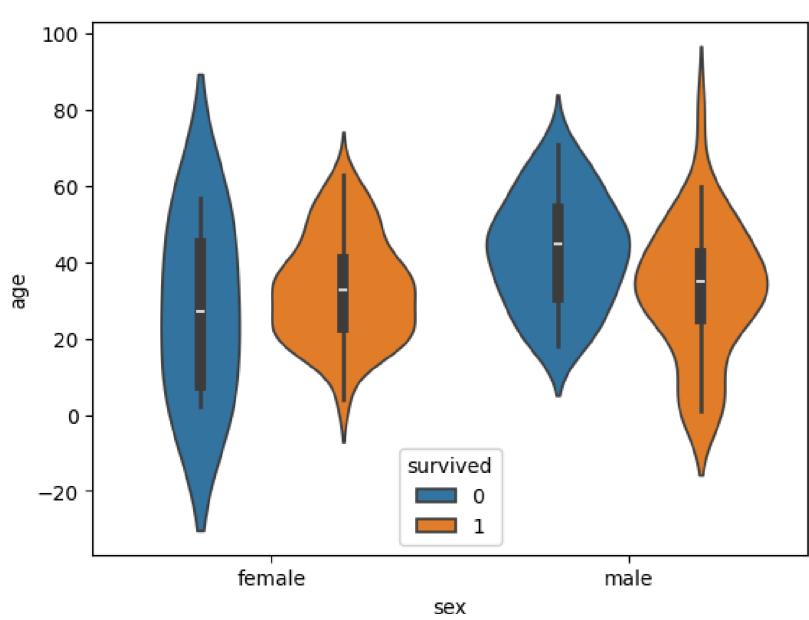
In [15]: sns.violinplot(x='sex', y='age', data=dataset)

Out[15]: <Axes: xlabel='sex', ylabel='age'>



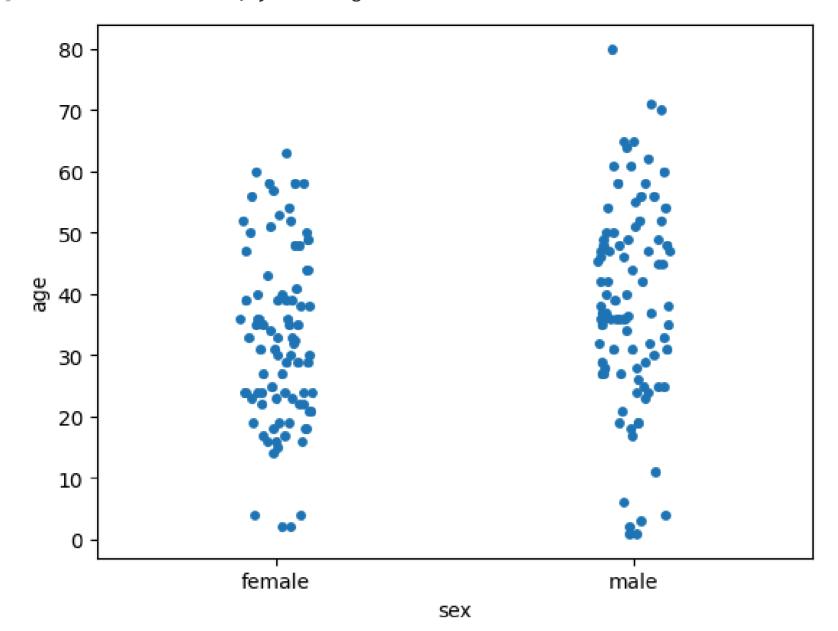
In [16]: sns.violinplot(x='sex', y='age', data=dataset, hue='survived')

Out[16]: <Axes: xlabel='sex', ylabel='age'>



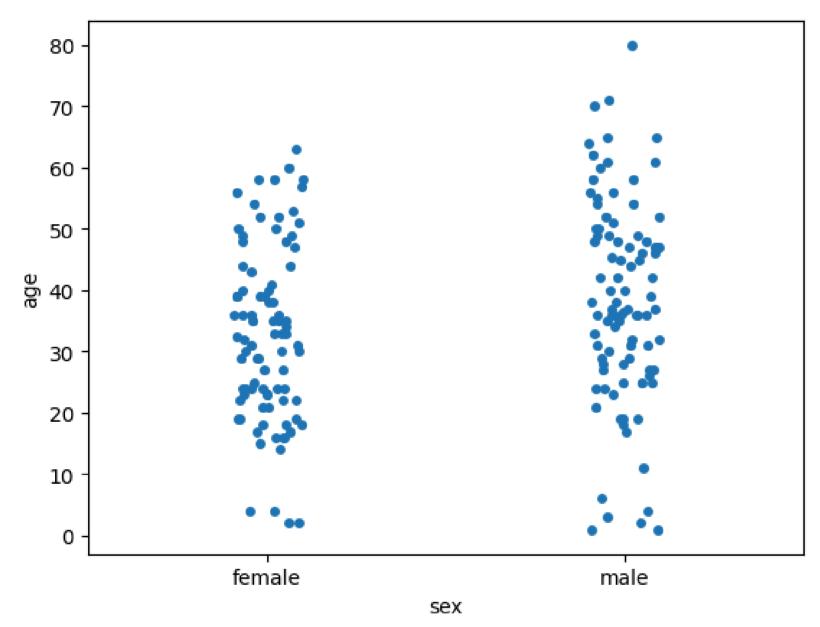
```
In [17]: sns.stripplot(x='sex', y='age', data=dataset)
```

Out[17]: <Axes: xlabel='sex', ylabel='age'>



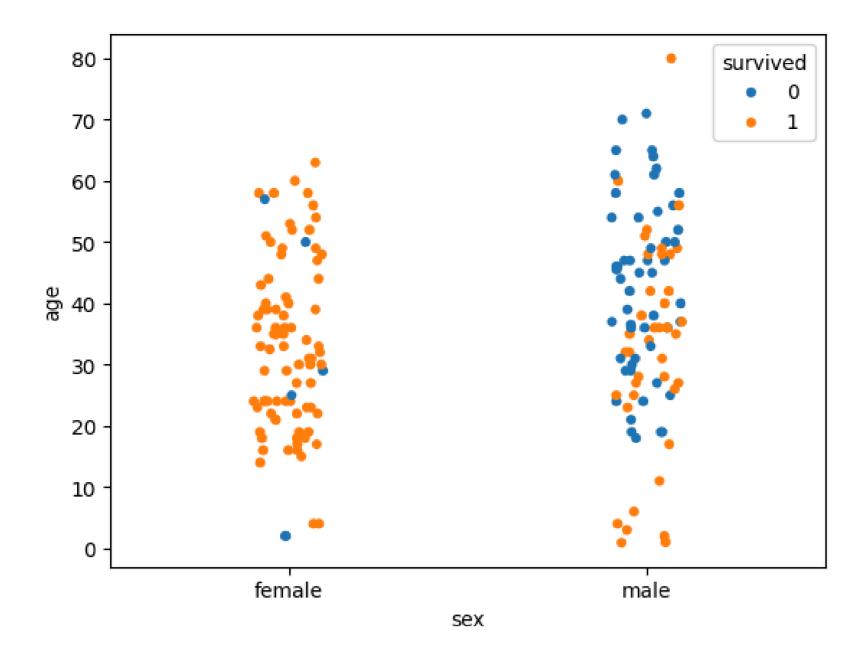
In [18]: sns.stripplot(x='sex', y='age', data=dataset, jitter=True)

Out[18]: <Axes: xlabel='sex', ylabel='age'>



```
In [19]: sns.stripplot(x='sex', y='age', data=dataset, jitter=True, hue='survived')
```

Out[19]: <Axes: xlabel='sex', ylabel='age'>



In []: