In [ ]:
```
#9. Data Visualization I
#1. Use the inbuilt dataset 'titanic'. The dataset contains 891 rows and conta
#boarded the unfortunate Titanic ship. Use the Seaborn library to see if we co
#2. Writeacodetocheckhowthepriceoftheticket(columnname:'fare')foreach
#passenger is distributed by plotting a histogram.

#no datasset
```

In [1]:
```
import pandas as pd
import numpy as np

import matplotlib.pyplot as plt
import seaborn as sns
```

In [2]:
```
dataset = sns.load_dataset('titanic')
dataset.head()
```

Out[2]:

	survived	pclass	sex	age	sibsp	parch	fare	embarked	class	who	adult_male
0	0	3	male	22.0	1	0	7.2500	S	Third	man	True
1	1	1	female	38.0	1	0	71.2833	C	First	woman	False
2	1	3	female	26.0	0	0	7.9250	S	Third	woman	False
3	1	1	female	35.0	1	0	53.1000	S	First	woman	False
4	0	3	male	35.0	0	0	8.0500	S	Third	man	True

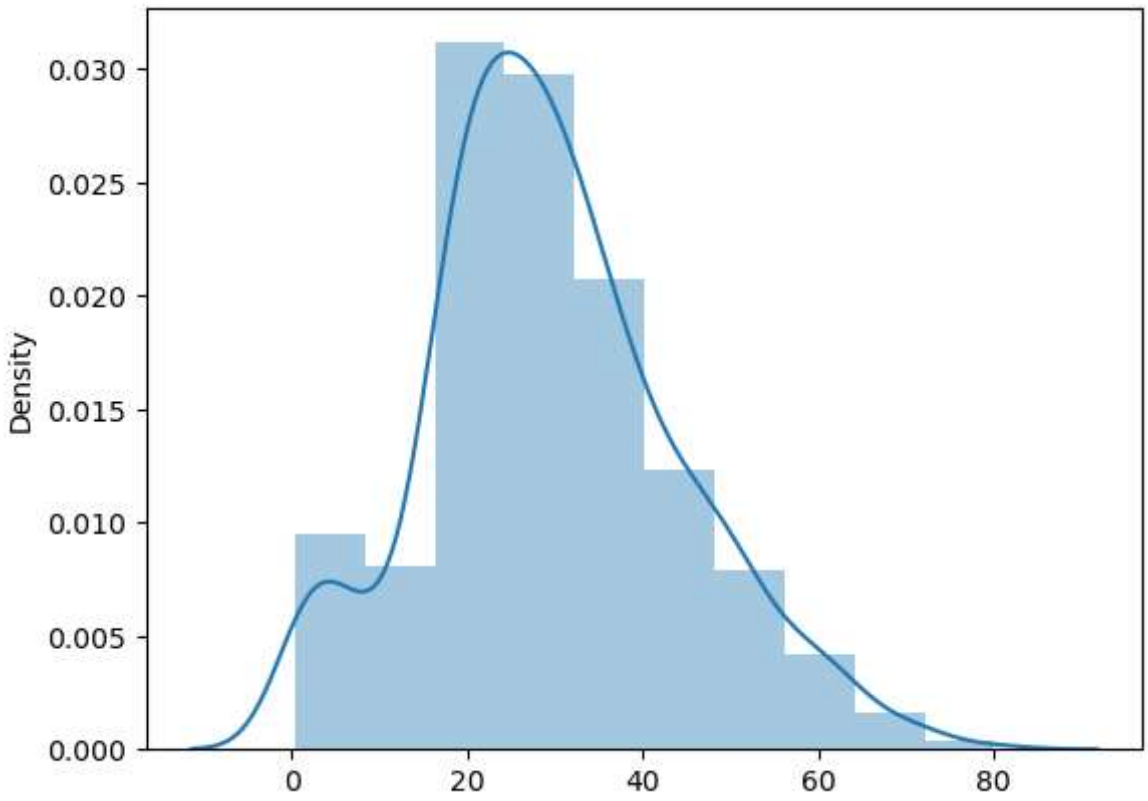
In [3]:
```
#Step 3: Plotting different graphs
```

In [4]:
```
#Distplot
```

In [5]:
```
sns.distplot(x = dataset["age"], bins = 10)
```

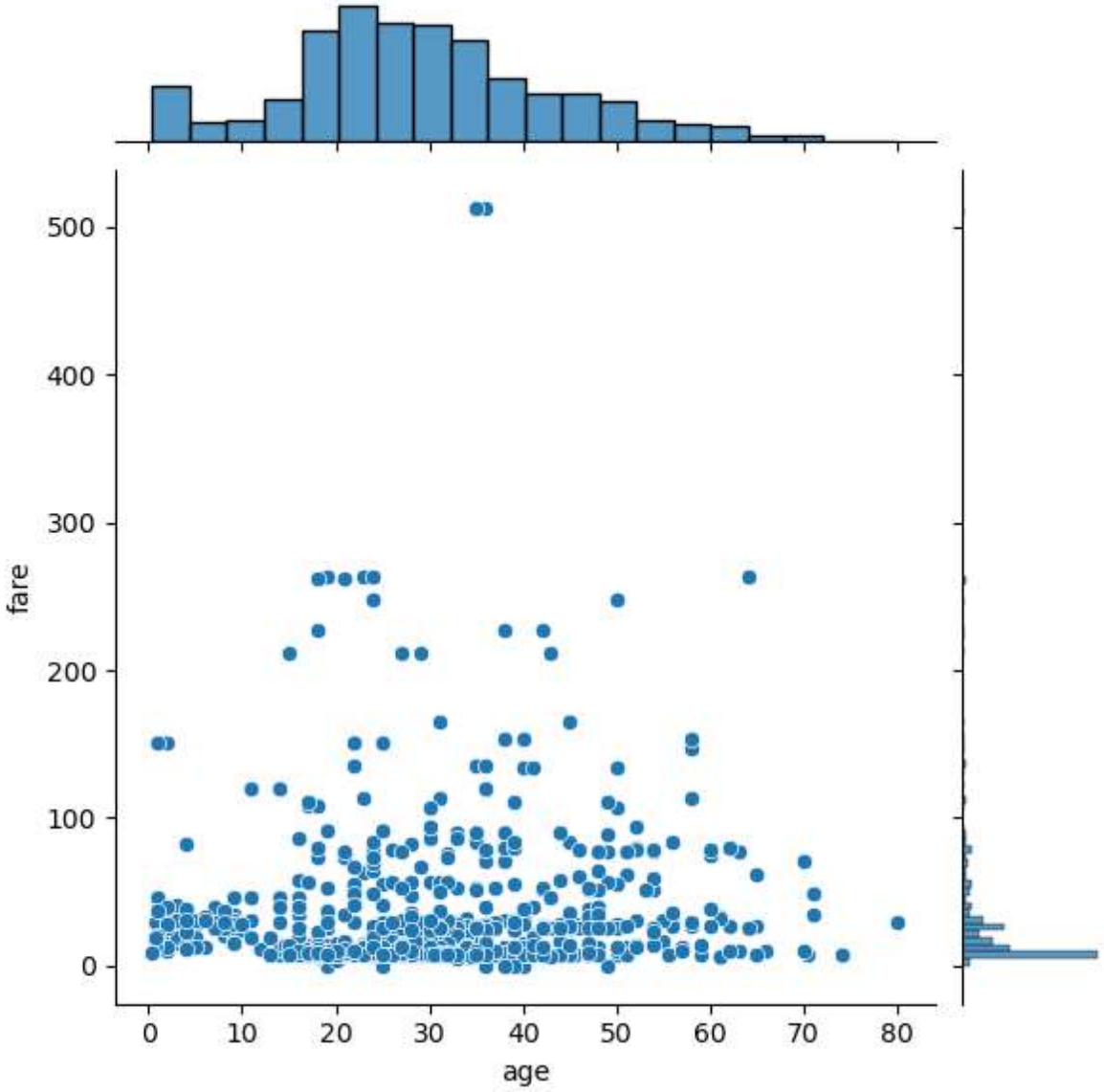
```
C:\ProgramData\Anaconda3\lib\site-packages\seaborn\distributions.py:2619: Fu
tureWarning: `distplot` is a deprecated function and will be removed in a fu
ture version. Please adapt your code to use either `displot` (a figure-level
function with similar flexibility) or `histplot` (an axes-level function for
histograms).
  warnings.warn(msg, FutureWarning)
```

Out[5]: <AxesSubplot:ylabel='Density'>



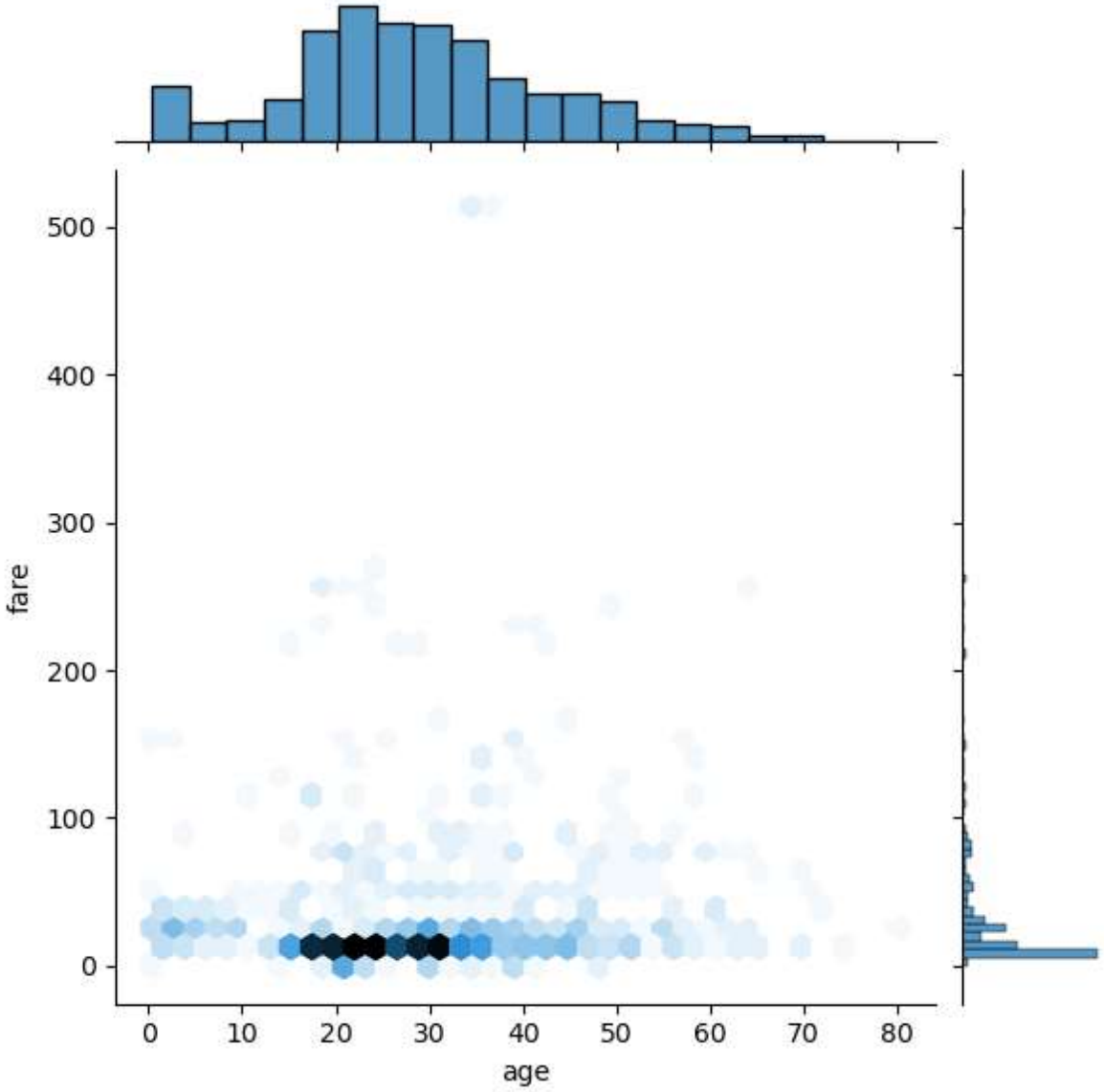
In [6]:
```
sns.jointplot(x=dataset["age"],y=dataset["fare"],
              kind="scatter")
```

Out[6]: <seaborn.axisgrid.JointGrid at 0x1faf30ddf40>



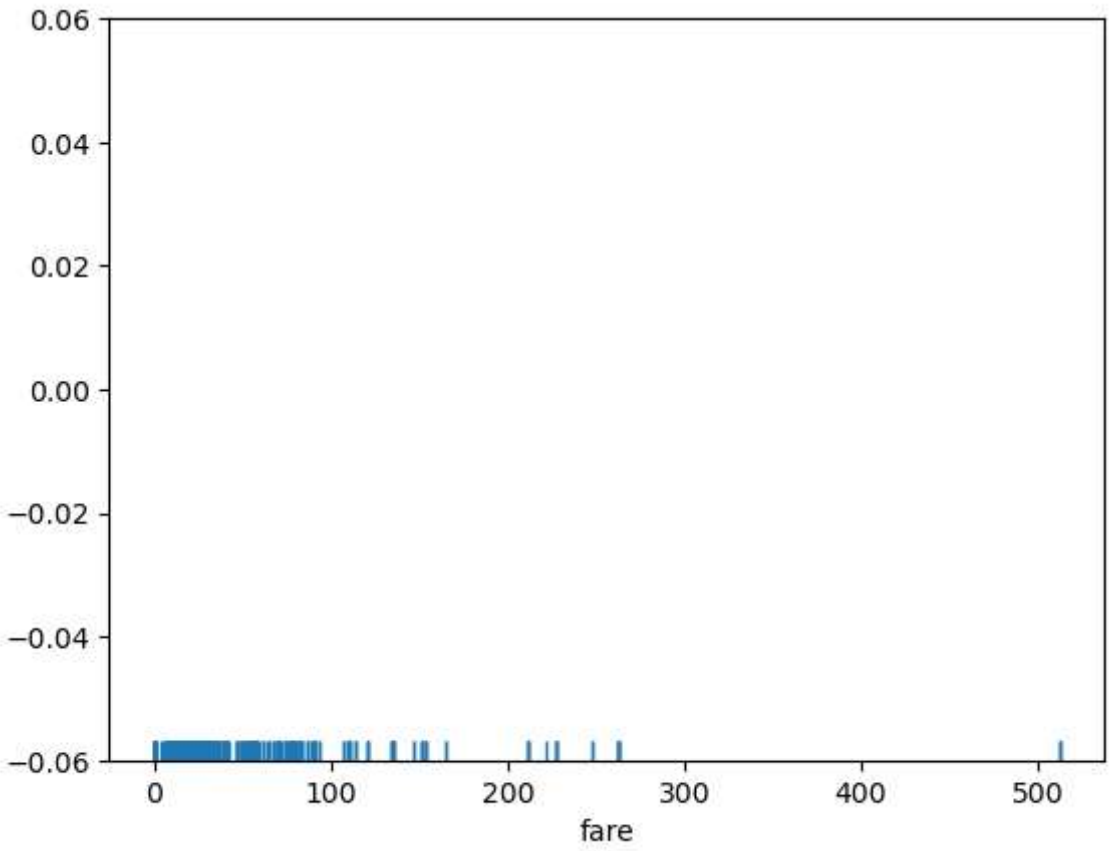
In [8]:
```
sns.jointplot(x = dataset["age"],
              y = dataset["fare"], kind = "hex")
```

Out[8]: <seaborn.axisgrid.JointGrid at 0x1faf31cda90>



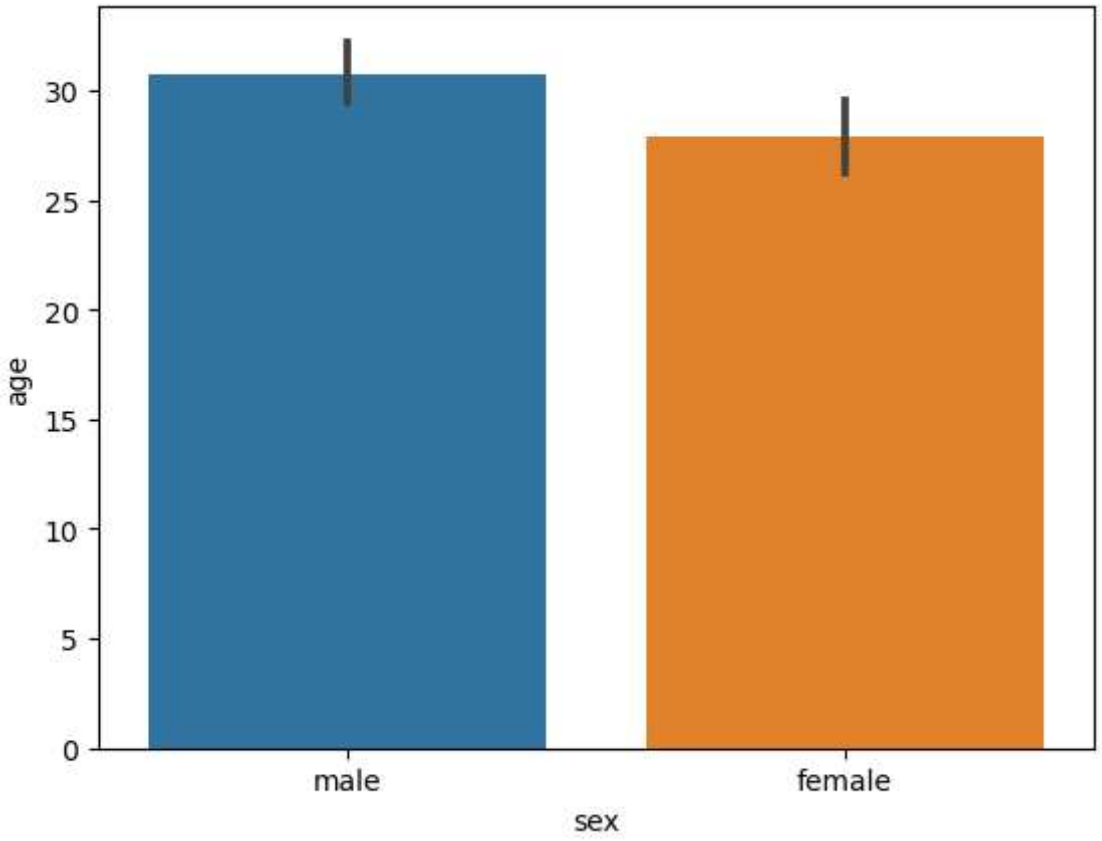
In [9]:
```
sns.rugplot(dataset["fare"])
```

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



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

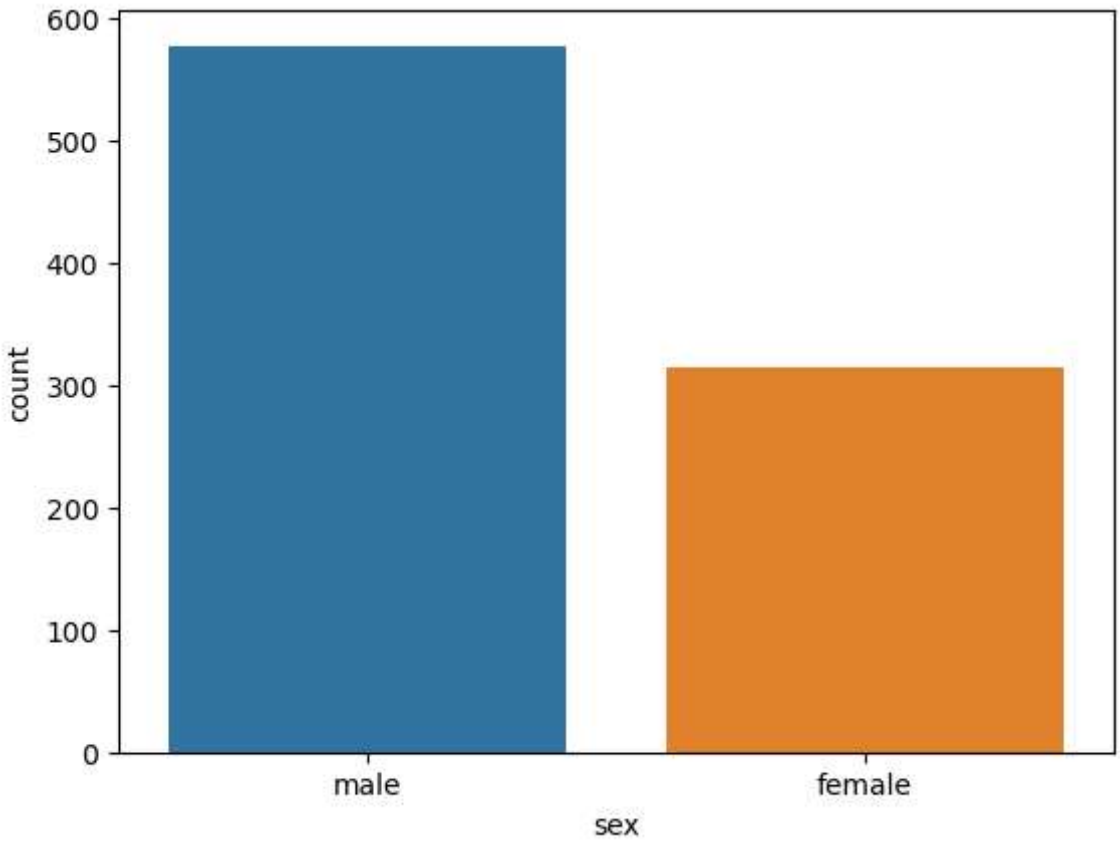
Out[10]: <AxesSubplot:xlabel='sex', ylabel='age'>



In [11]:
```
#Count Plot
```

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

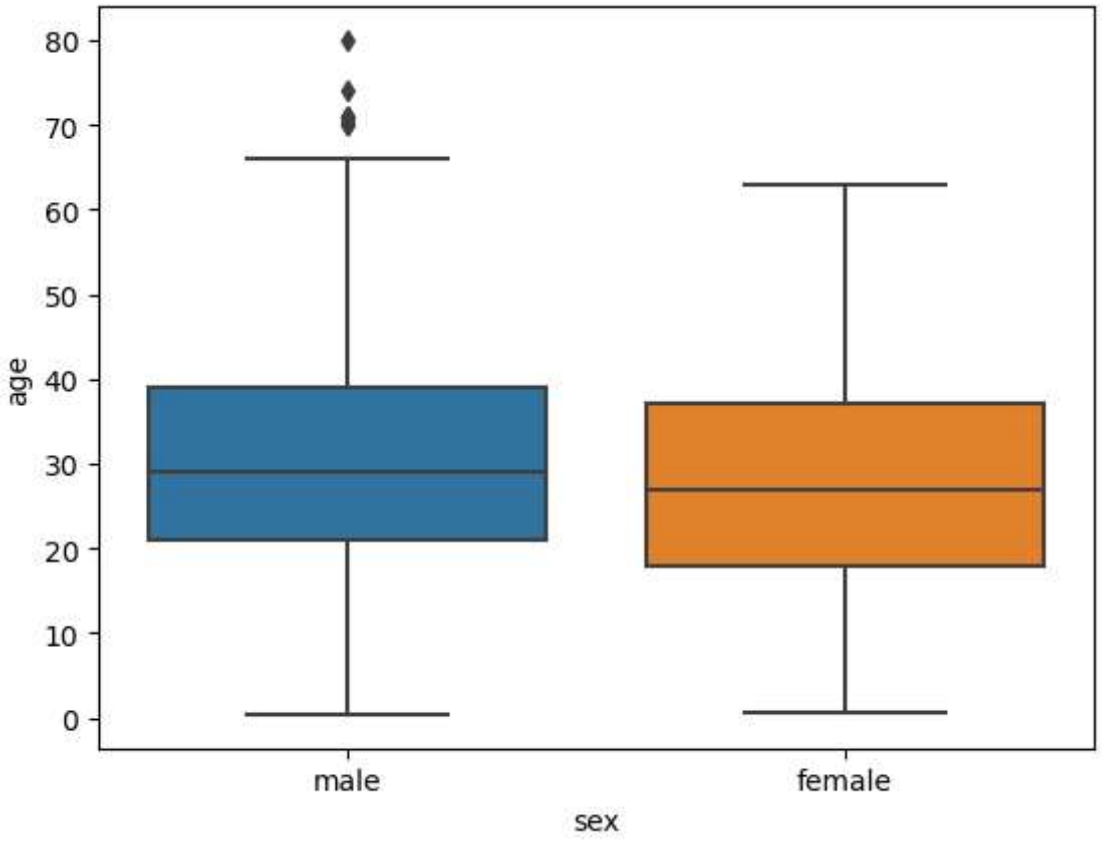
Out[12]: <AxesSubplot:xlabel='sex', ylabel='count'>



In [13]:
```
#Box Plot
```

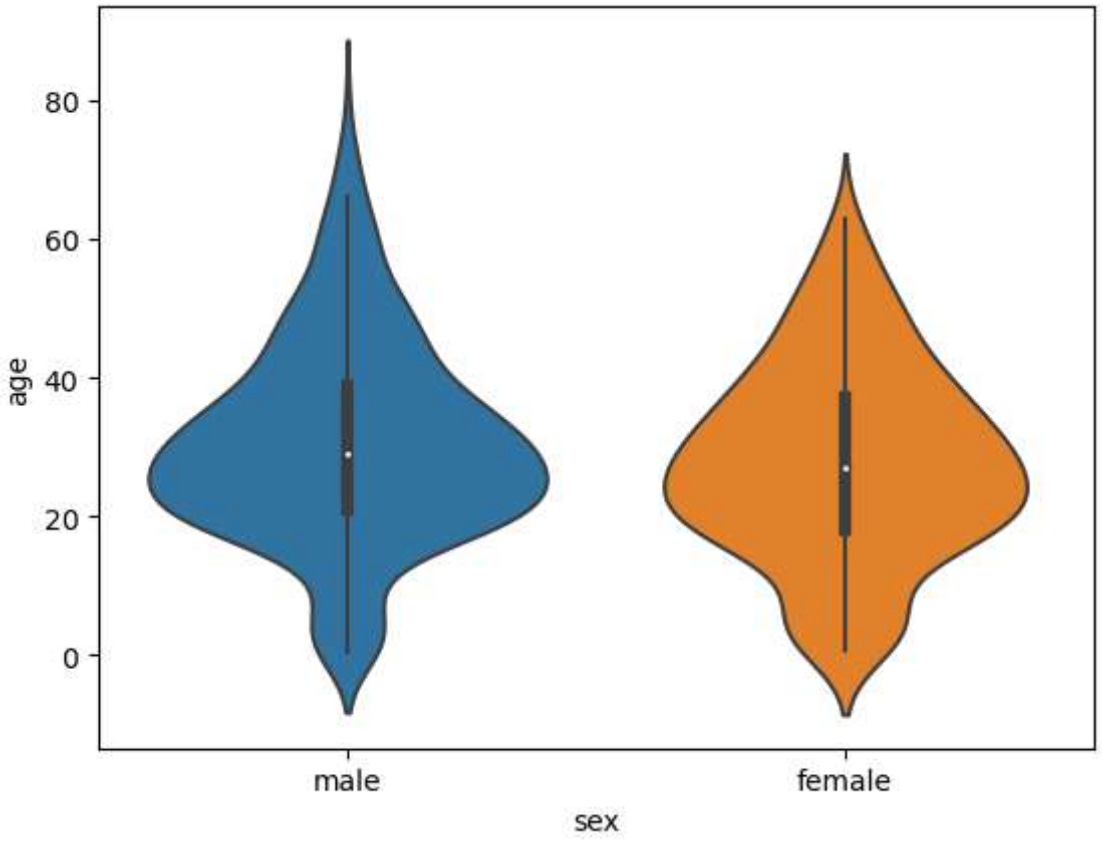
In [14]:
```
sns.boxplot(x="sex", y="age", data=dataset)
```

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



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

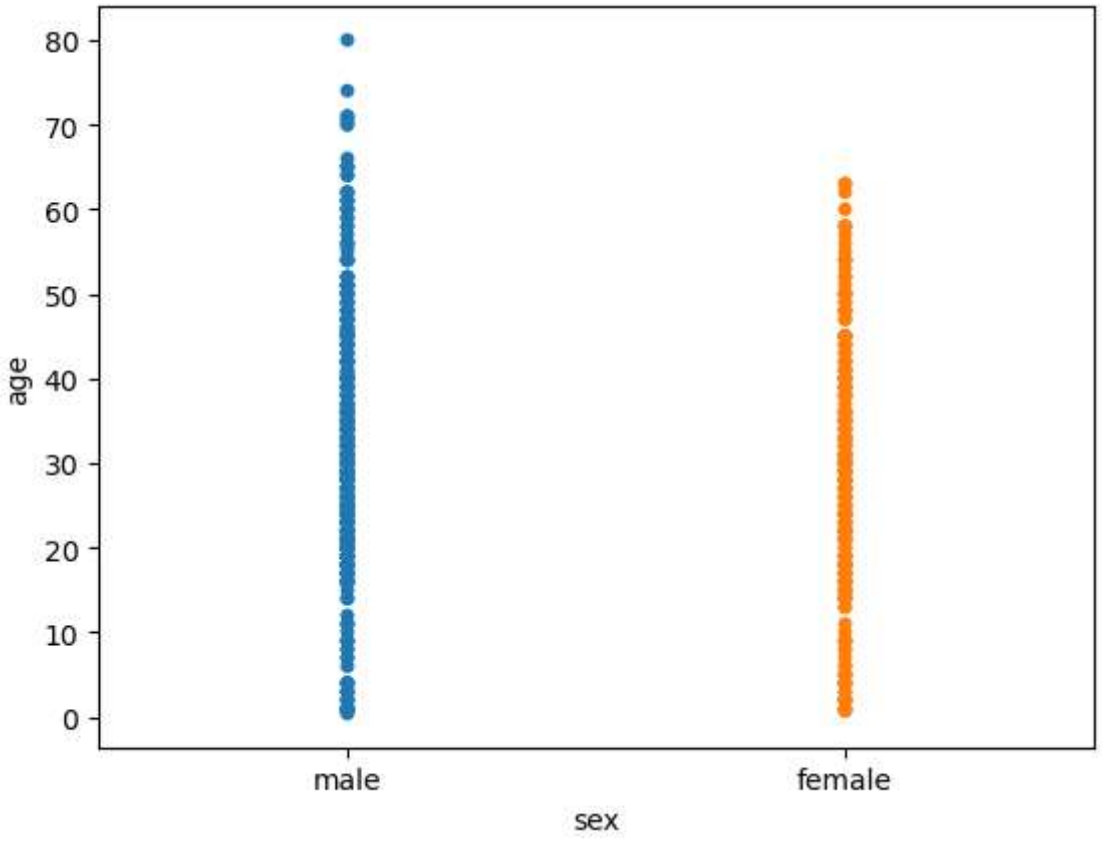
Out[15]: <AxesSubplot:xlabel='sex', ylabel='age'>



In [16]:
```
#Strip Plot
```

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

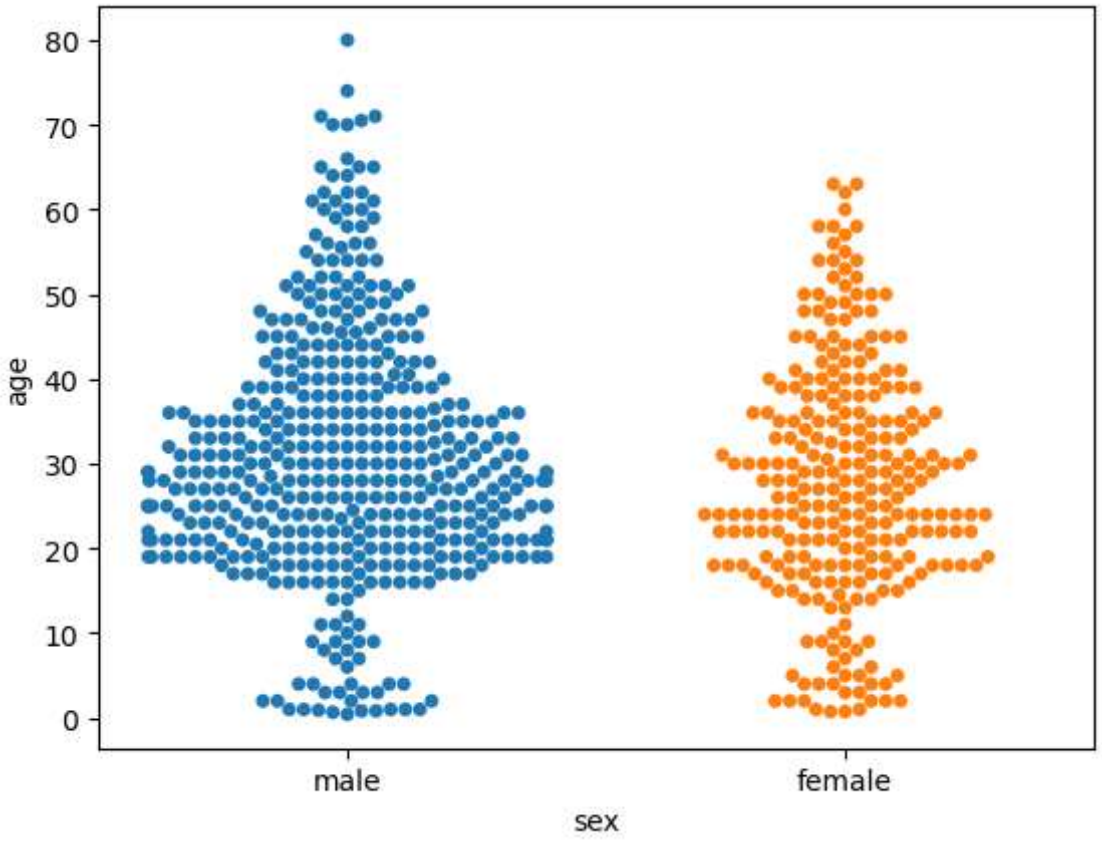
Out[17]: <AxesSubplot:xlabel='sex', ylabel='age'>



In [18]:
```
#Swarm Plot
```

In [19]:
```
sns.swarmplot(x="sex", y="age", data=dataset)
```

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



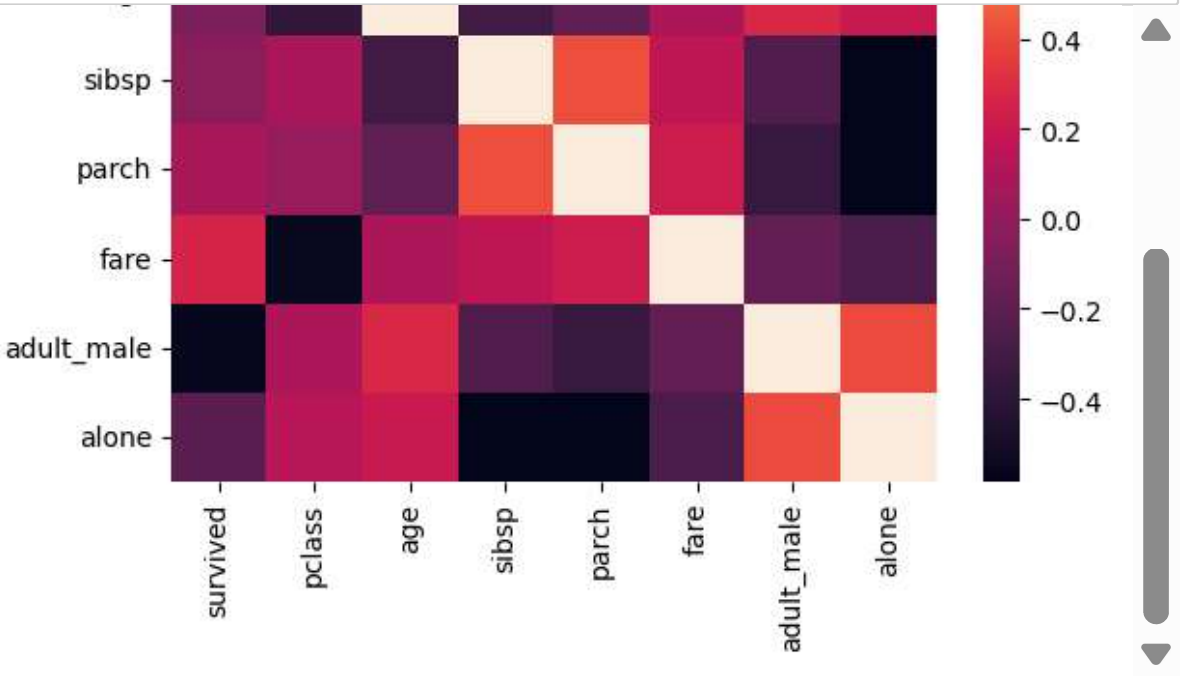
In [20]:
```
#Heat Maps
```

In [21]:
```
dataset = sns.load_dataset("titanic")
dataset.head()
```

Out[21]:

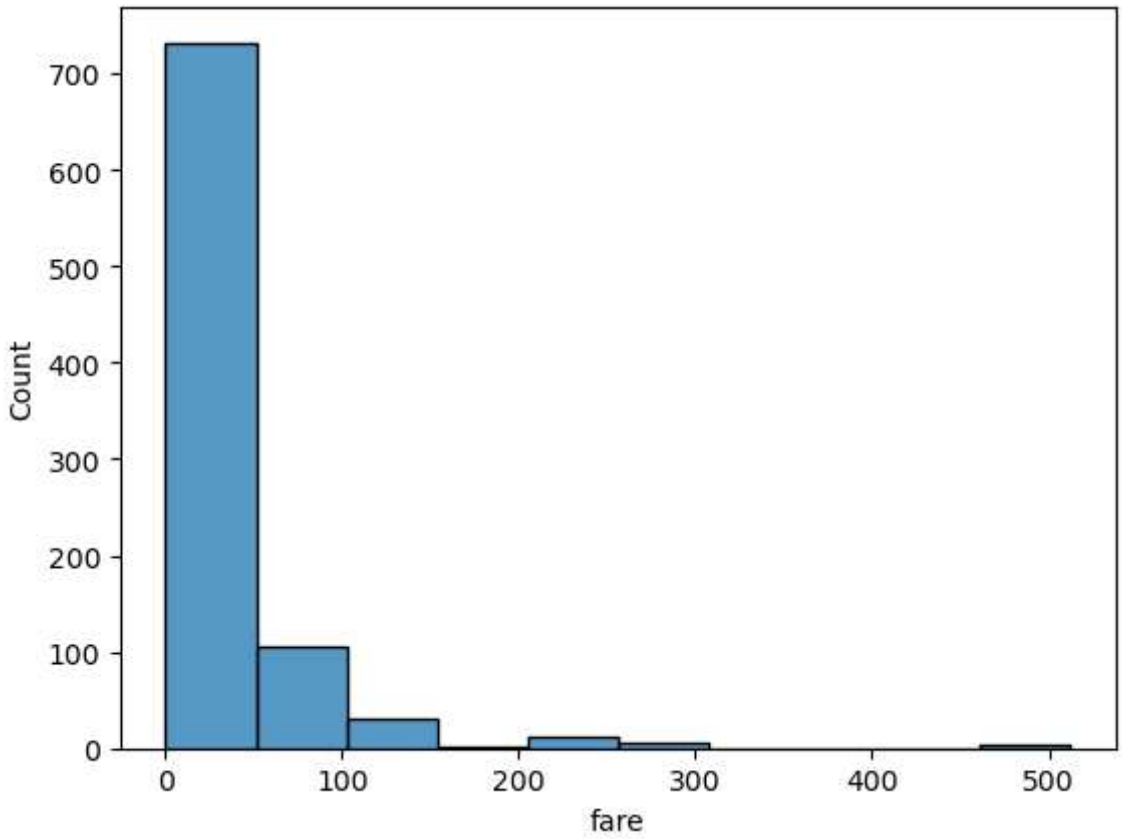
	survived	pclass	sex	age	sibsp	parch	fare	embarked	class	who	adult_male
0	0	3	male	22.0	1	0	7.2500	S	Third	man	True
1	1	1	female	38.0	1	0	71.2833	C	First	woman	False
2	1	3	female	26.0	0	0	7.9250	S	Third	woman	False
3	1	1	female	35.0	1	0	53.1000	S	First	woman	False
4	0	3	male	35.0	0	0	8.0500	S	Third	man	True

In [22]:
```
corr = dataset.corr()
sns.heatmap(corr)
```



In [23]:
```
sns.histplot(dataset["fare"],
             kde=False,bins=10)
```

Out[23]: <AxesSubplot:xlabel='fare', ylabel='Count'>



In [ ]: