Experiment No. 8

In [1]:
```
import seaborn as sns
df=  sns.load_dataset('titanic')
```

In [2]:
```
df
```

Out[2]:

	survived	pclass	sex	age	sibsp	parch	fare	embarked	class	who	ad
0	0	3	male	22.0	1	0	7.2500	S	Third	man	
1	1	1	female	38.0	1	0	71.2833	C	First	woman	
2	1	3	female	26.0	0	0	7.9250	S	Third	woman	
3	1	1	female	35.0	1	0	53.1000	S	First	woman	
4	0	3	male	35.0	0	0	8.0500	S	Third	man	
...	...	...	...	...	...	...	...	...	...	...	
886	0	2	male	27.0	0	0	13.0000	S	Second	man	
887	1	1	female	19.0	0	0	30.0000	S	First	woman	
888	0	3	female	NaN	1	2	23.4500	S	Third	woman	
889	1	1	male	26.0	0	0	30.0000	C	First	man	
890	0	3	male	32.0	0	0	7.7500	Q	Third	man	

891 rows × 15 columns

In [3]:
```
df=df[['survived','class','sex','age','fare']]
```

In [4]:
```
df
```

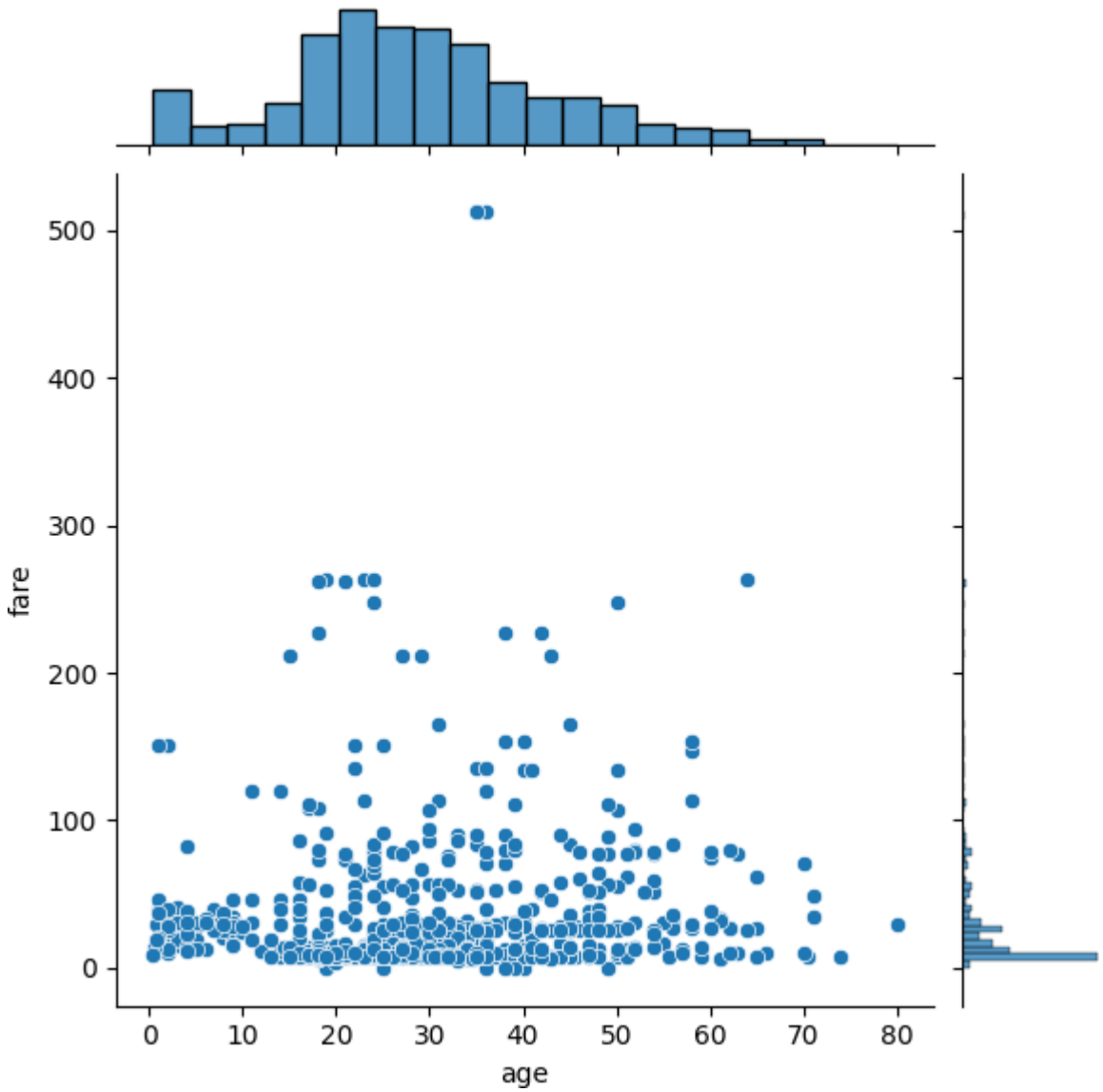
Out[4]:

	survived	class	sex	age	fare
0	0	Third	male	22.0	7.2500
1	1	First	female	38.0	71.2833
2	1	Third	female	26.0	7.9250
3	1	First	female	35.0	53.1000
4	0	Third	male	35.0	8.0500
...	...	...	...	...	...
886	0	Second	male	27.0	13.0000
887	1	First	female	19.0	30.0000
888	0	Third	female	NaN	23.4500
889	1	First	male	26.0	30.0000
890	0	Third	male	32.0	7.7500

891 rows × 5 columns

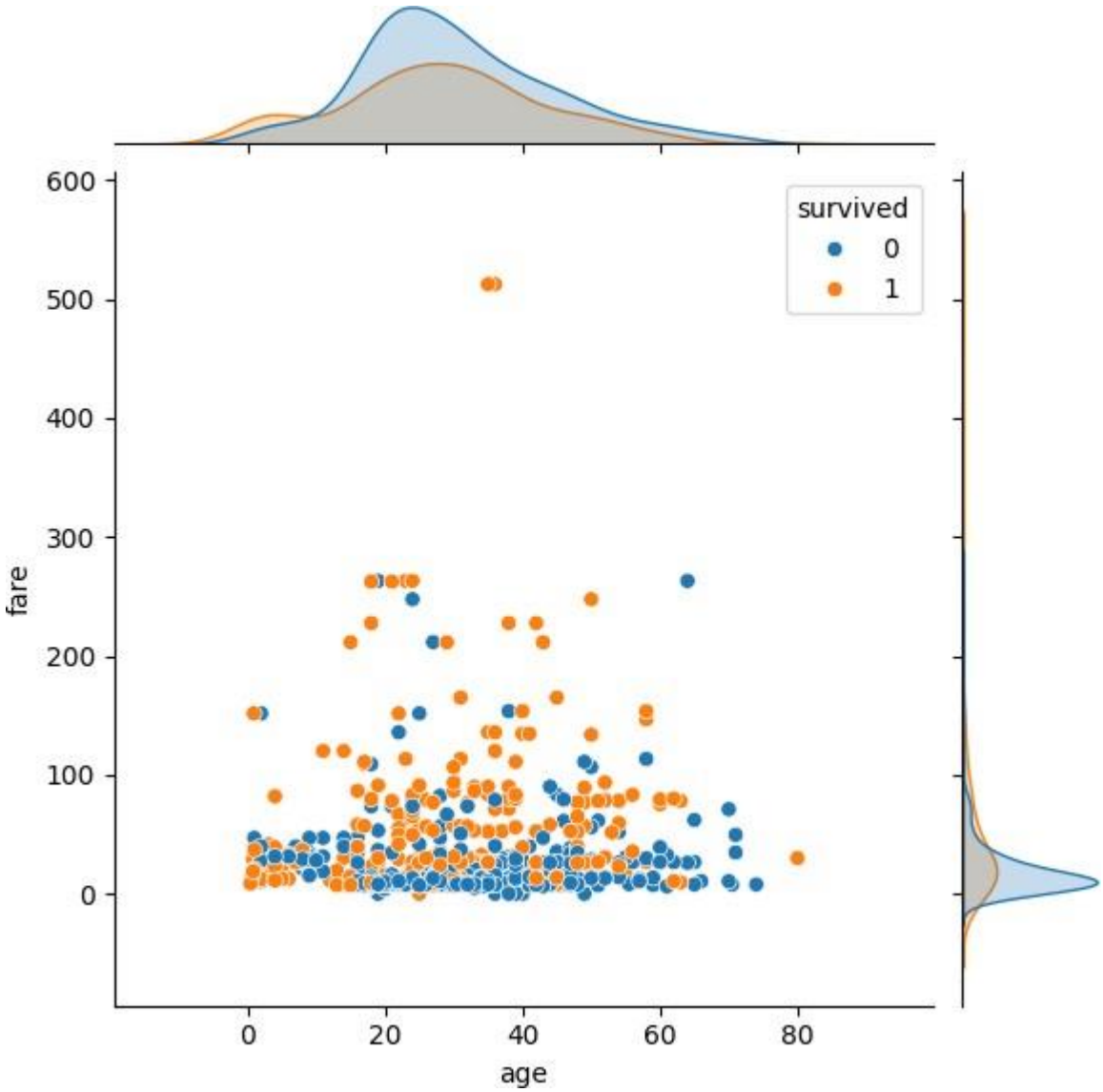
In [5]:
```
sns.jointplot(x='age',y='fare',data=df)
```

Out[5]:
```
<seaborn.axisgrid.JointGrid at 0x26139ebf8c0>
```



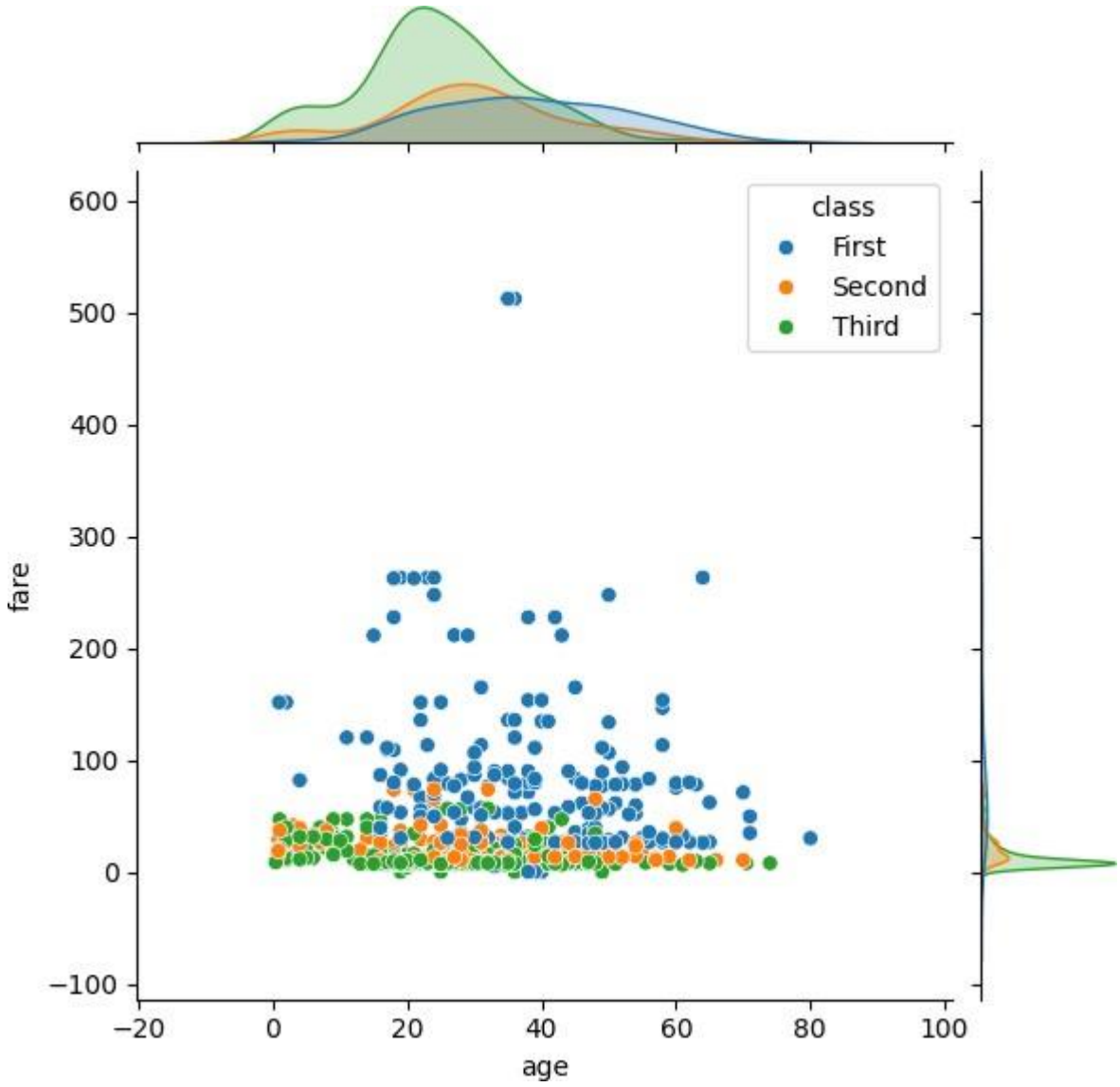
In [6]:
```
sns.jointplot(x='age',y='fare',data=df,hue='survived')
```

Out[6]: <seaborn.axisgrid.JointGrid at 0x2616d6e56d0>



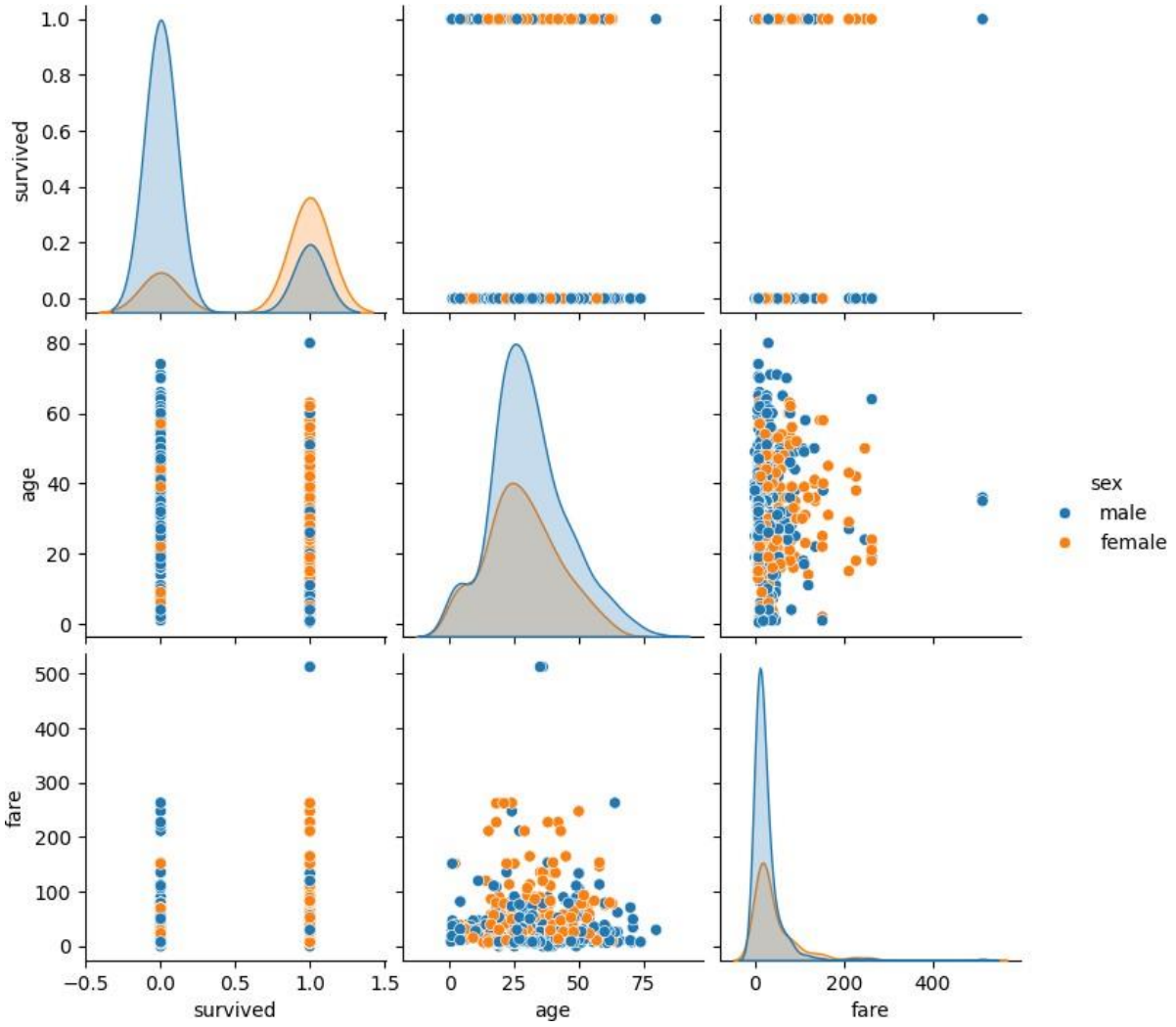
In [7]:
```
sns.jointplot(x='age',y='fare',data=df,hue='class')
```

Out[7]: <seaborn.axisgrid.JointGrid at 0x2616d8d9f90>



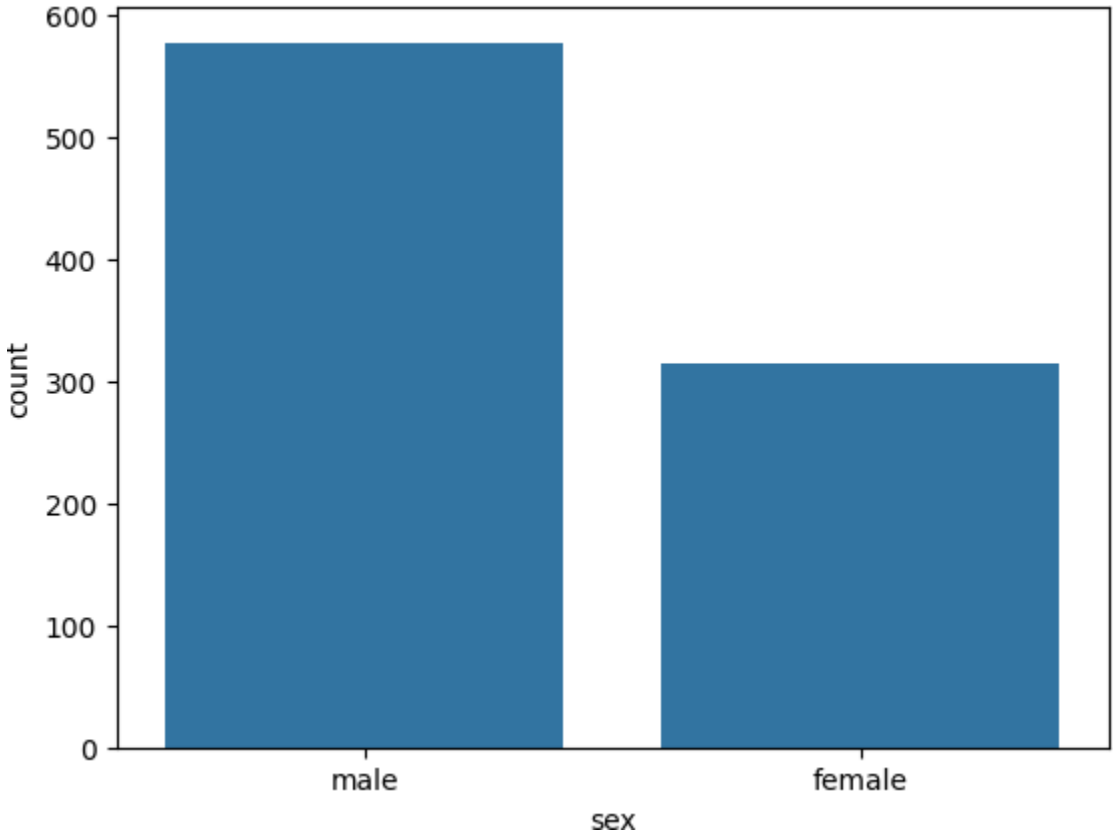
In [8]:
```
sns.pairplot(df,hue='sex')
```

Out[8]: <seaborn.axisgrid.PairGrid at 0x2616da14ad0>



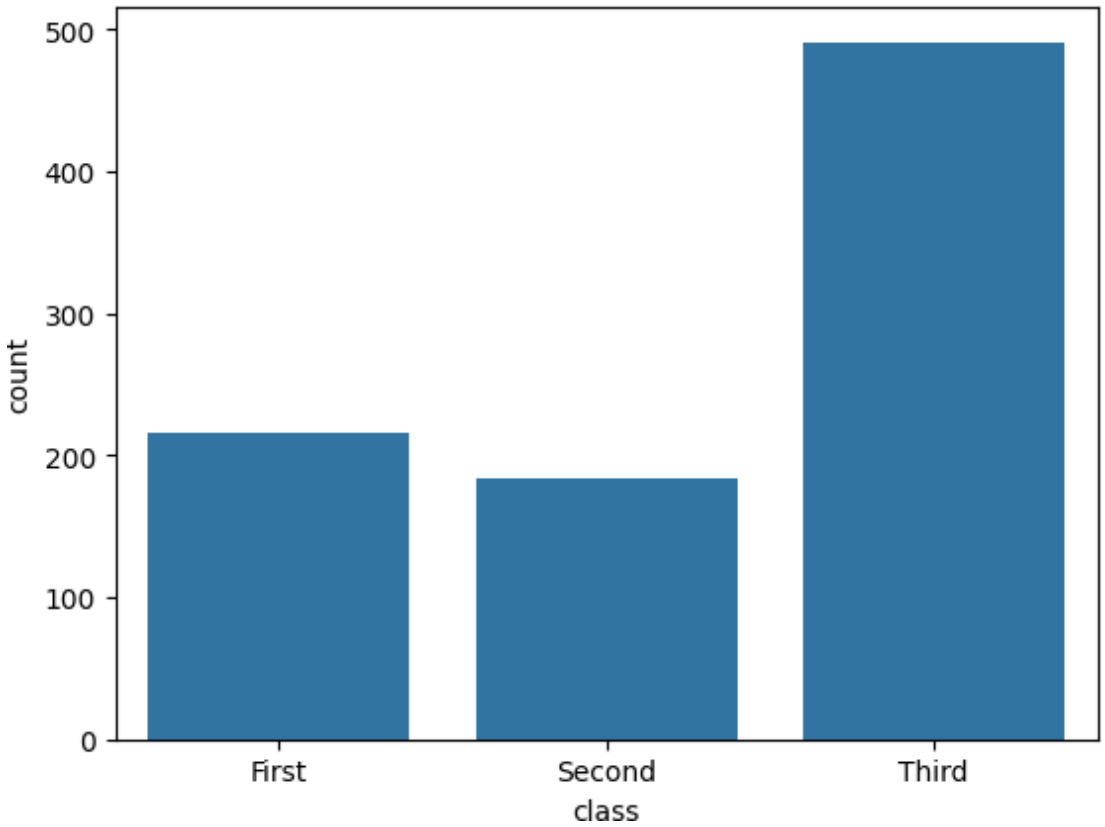
In [9]:
```
sns.countplot(x=df['sex'])
```

Out[9]: <Axes: xlabel='sex', ylabel='count'>



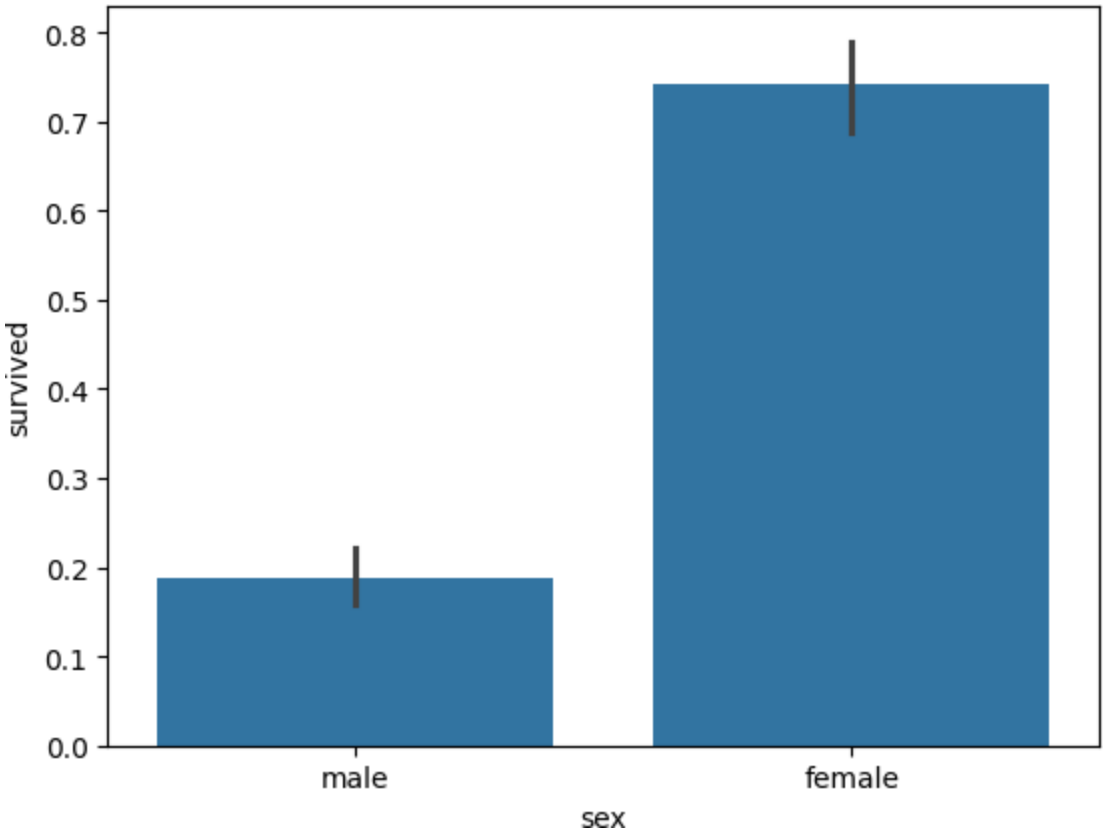
In [10]:
```
sns.countplot(x=df['class'])
```

Out[10]: <Axes: xlabel='class', ylabel='count'>



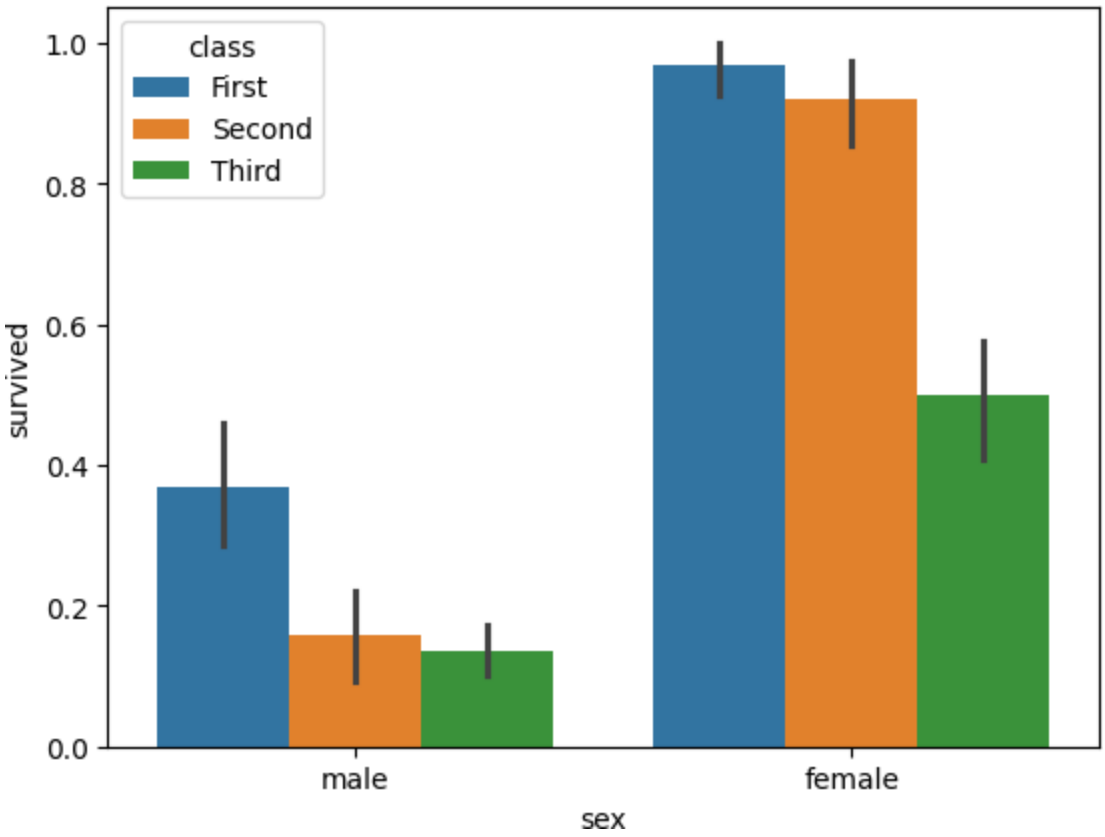
In [11]:
```
sns.barplot(x='sex',y='survived',data=df)
```

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



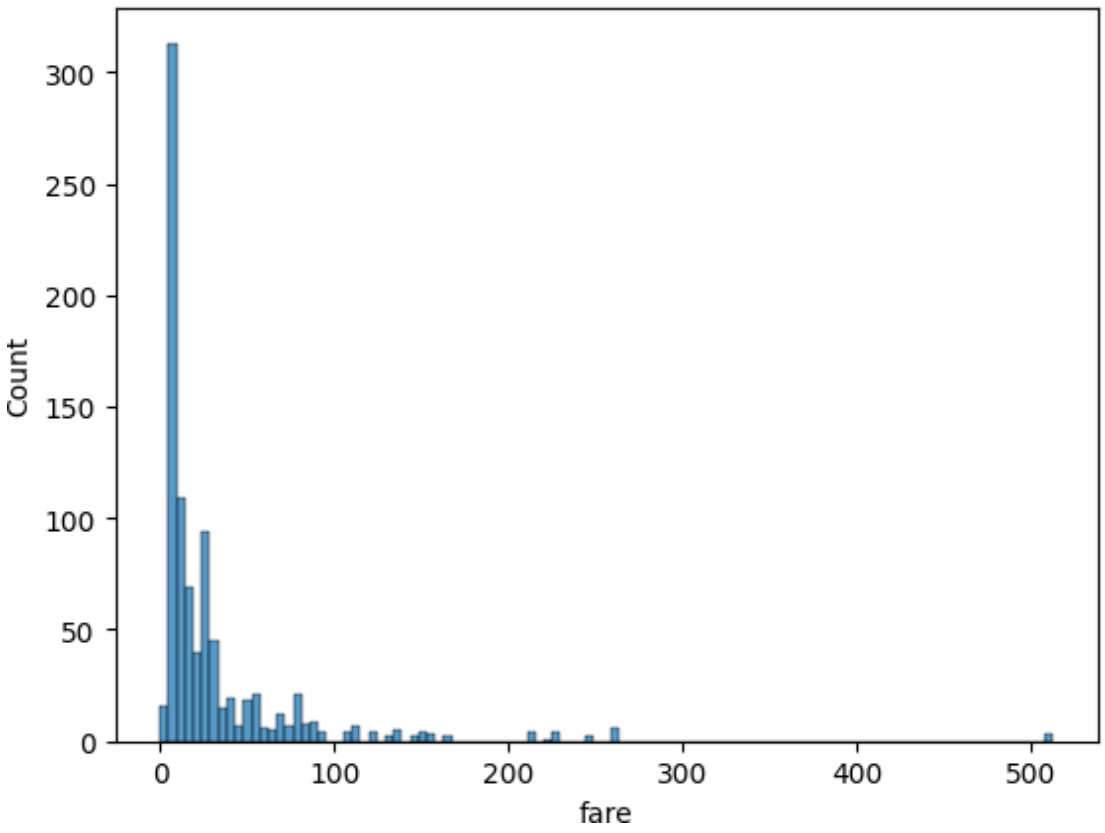
In [12]:
```
sns.barplot(x='sex',y='survived',hue='class',data=df)
```

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



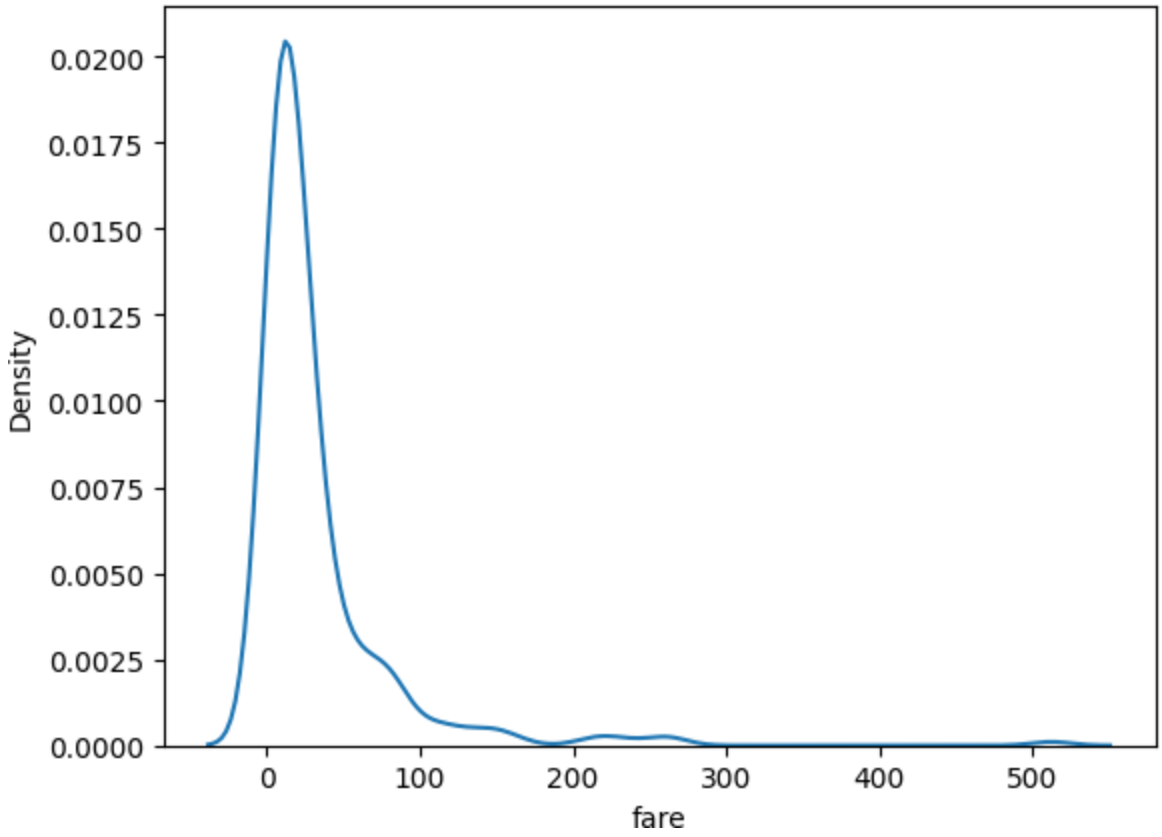
In [13]:
```
sns.histplot(df['fare'])
```

Out[13]: <Axes: xlabel='fare', ylabel='Count'>



In [14]:
```
sns.kdeplot(df['fare'])
```

Out[14]: <Axes: xlabel='fare', ylabel='Density'>



In [ ]: