

## Assignment No.8

```
import pandas as pd
import numpy as np
import seaborn as sns
import io
import matplotlib.pyplot as plt

df = sns.load_dataset('titanic')

df.head(5)
```

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

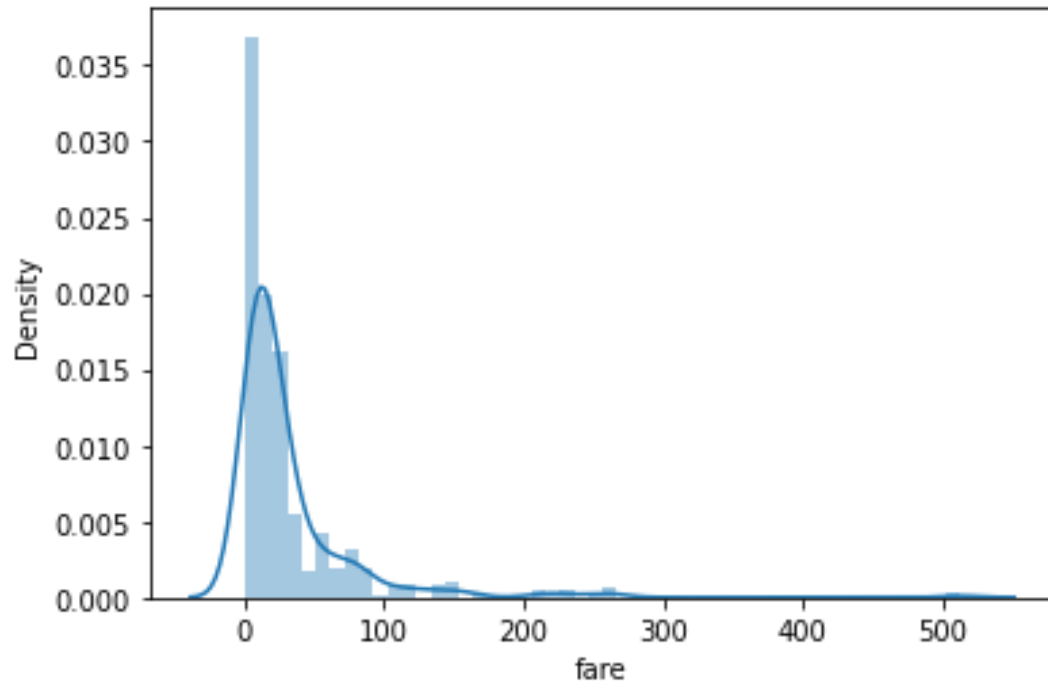
	who	adult_male	deck	embark_town	alive	alone
0	man	True	NaN	Southampton	no	False
1	woman	False	C	Cherbourg	yes	False
2	woman	False	NaN	Southampton	yes	True
3	woman	False	C	Southampton	yes	False
4	man	True	NaN	Southampton	no	True

```
sns.distplot(df['fare'])
```

```
/usr/local/lib/python3.7/dist-packages/seaborn/distributions.py:2619:
FutureWarning: `distplot` is a deprecated function and will be removed in a
future 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)
```

```
<matplotlib.axes._subplots.AxesSubplot at 0x7efcc95b6a90>
```

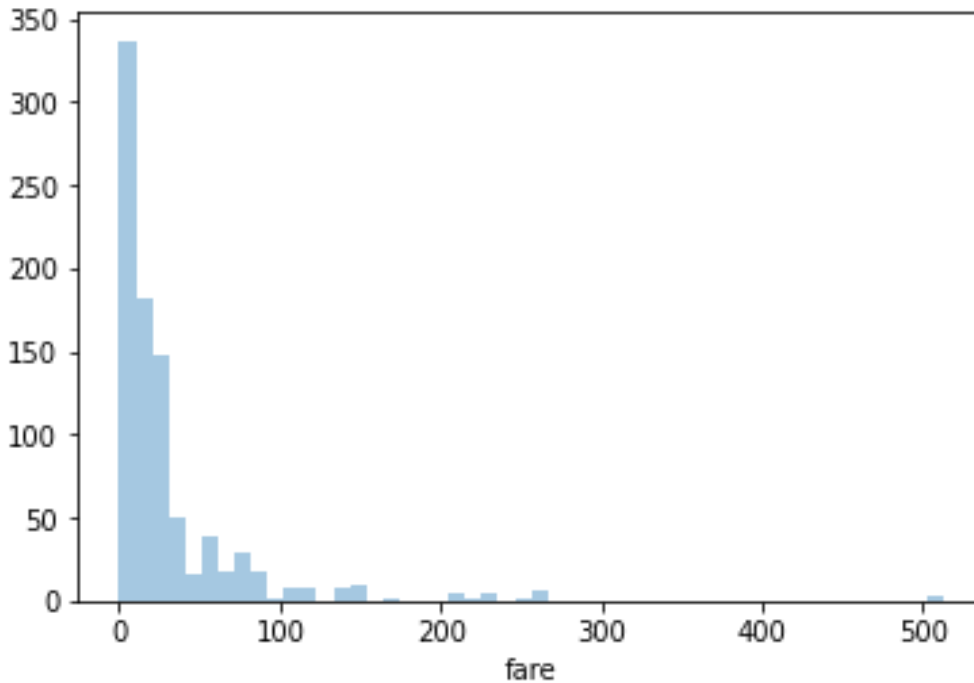


```
sns.distplot(df['fare'],kde=False)
```

```
/usr/local/lib/python3.7/dist-packages/seaborn/distributions.py:2619:  
FutureWarning: `distplot` is a deprecated function and will be removed in a  
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```
<matplotlib.axes._subplots.AxesSubplot at 0x7efcc9487e90>
```

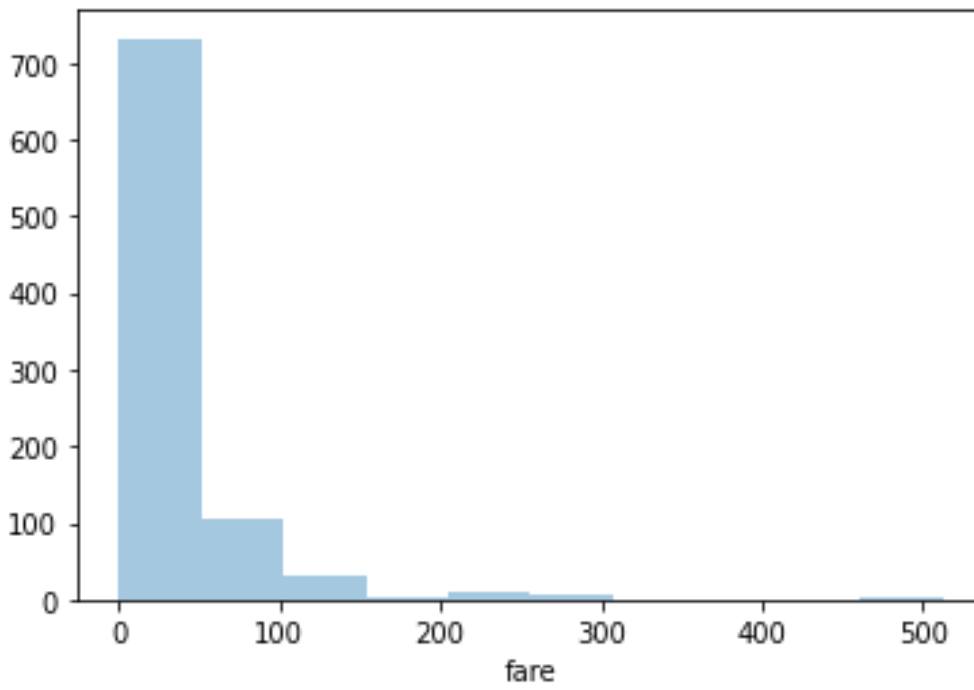


```
sns.distplot(df['fare'],kde=False,bins=10)
```

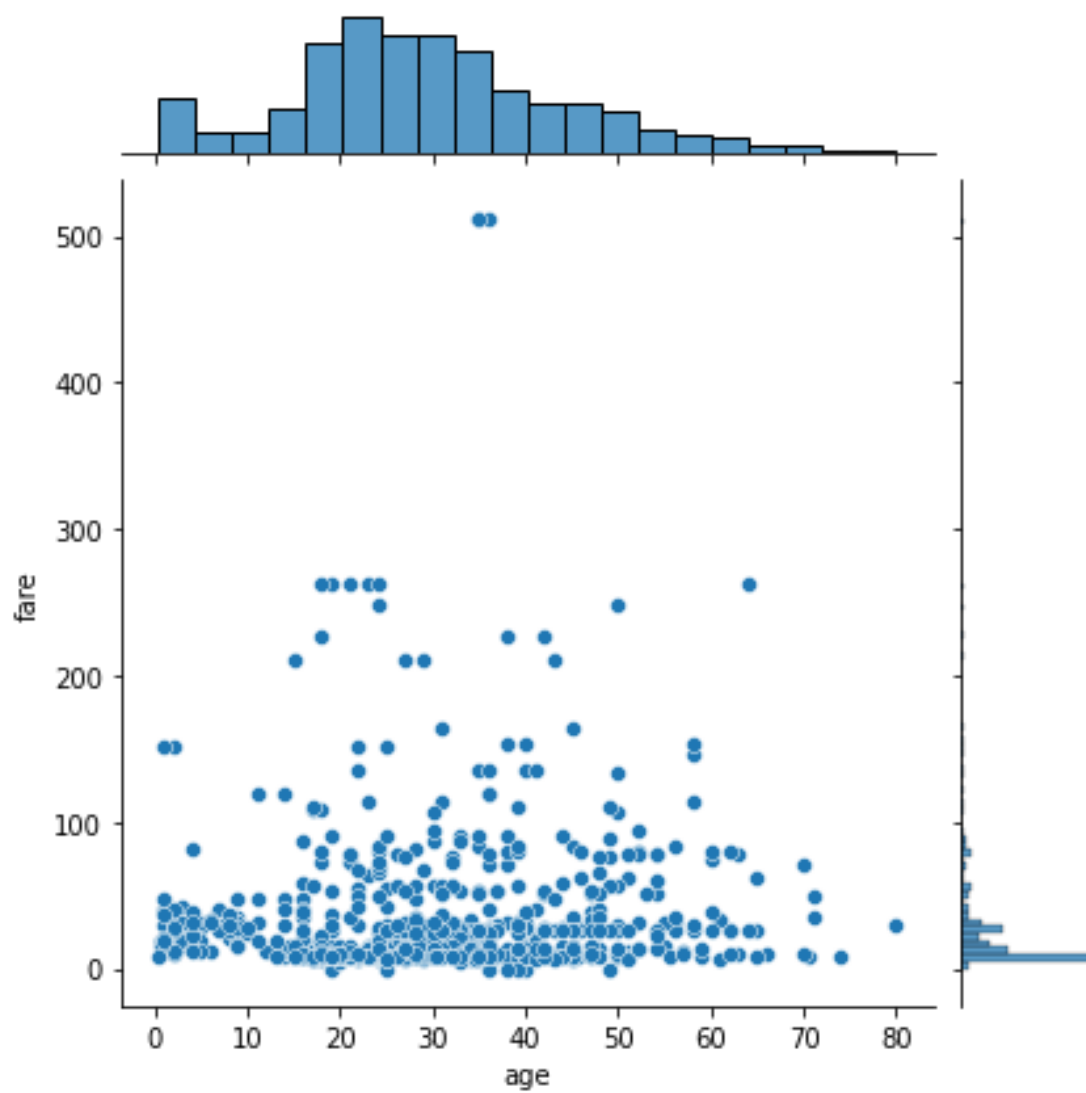
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/usr/local/lib/python3.7/dist-packages/seaborn/distributions.py:2619:  
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```

```
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```

```
<matplotlib.axes._subplots.AxesSubplot at 0x7efcc73edcd0>
```

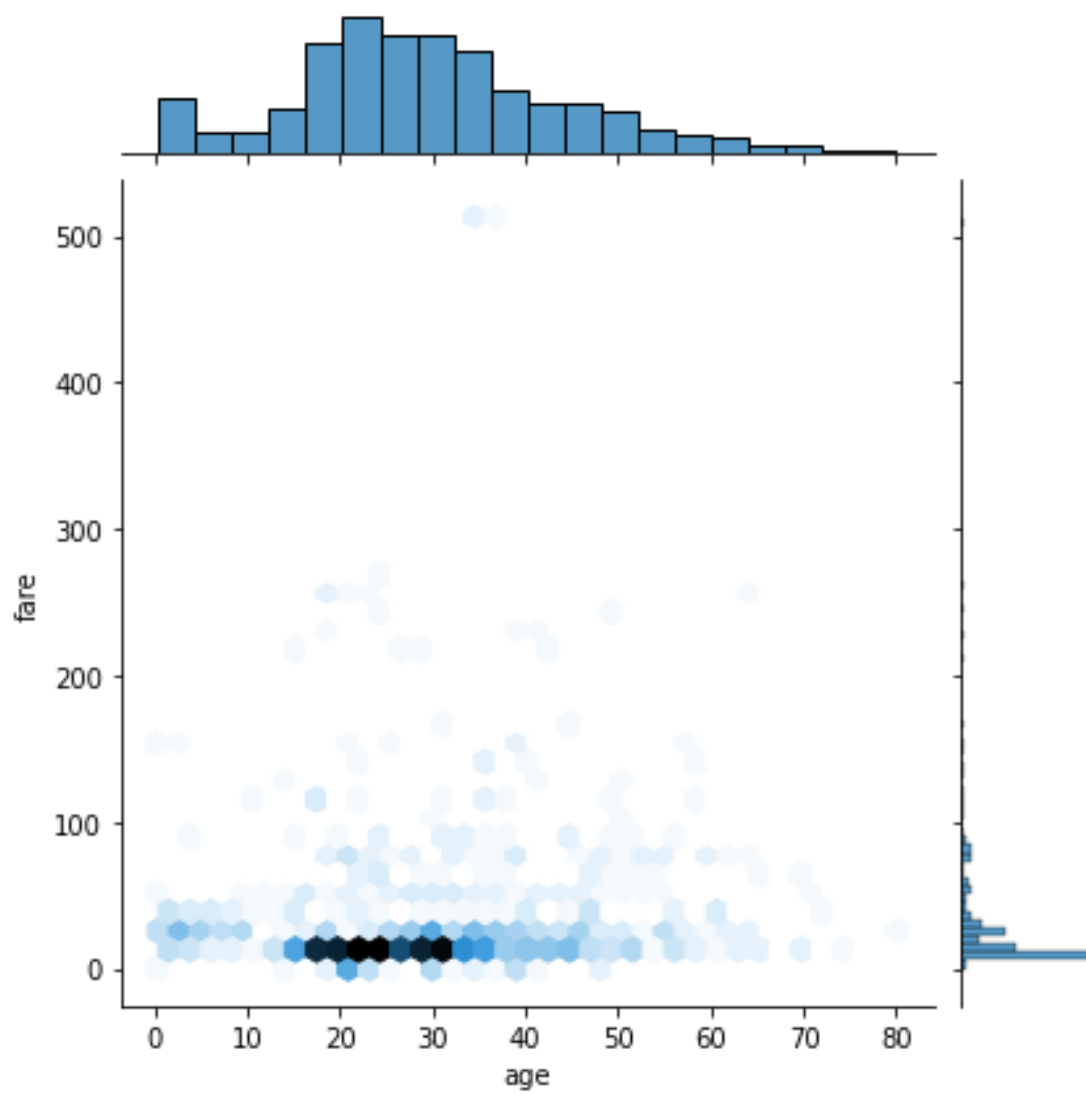


```
sns.jointplot(x="age",y="fare",data=df)  
<seaborn.axisgrid.JointGrid at 0x7efcc6f0c6d0>
```

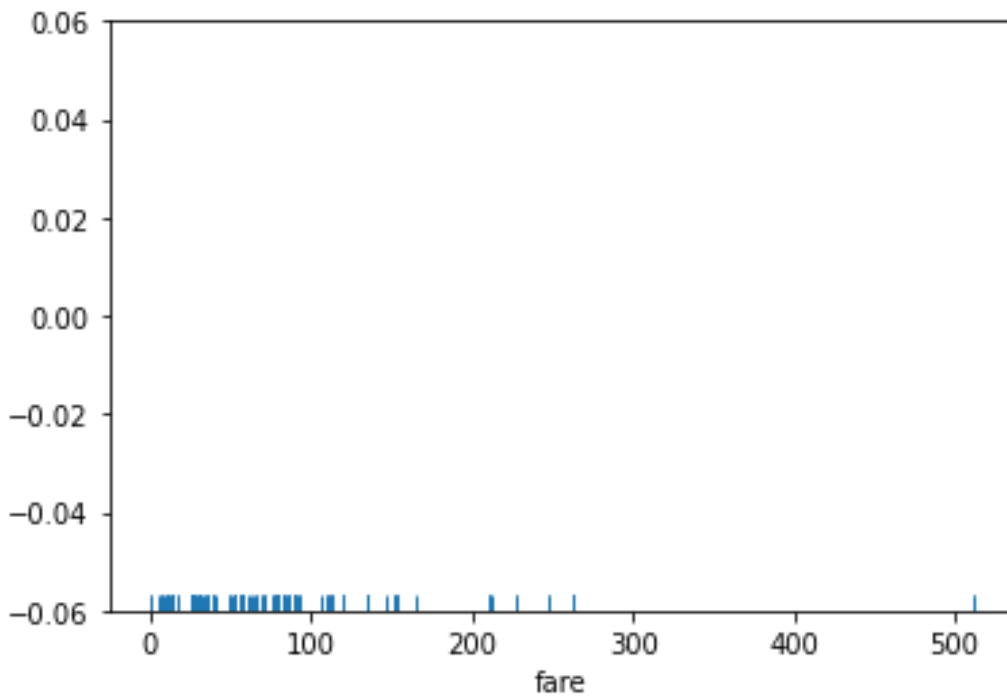


```
sns.jointplot(x="age",y="fare",data=df,kind='hex')
```

```
<seaborn.axisgrid.JointGrid at 0x7efcc42ffd10>
```

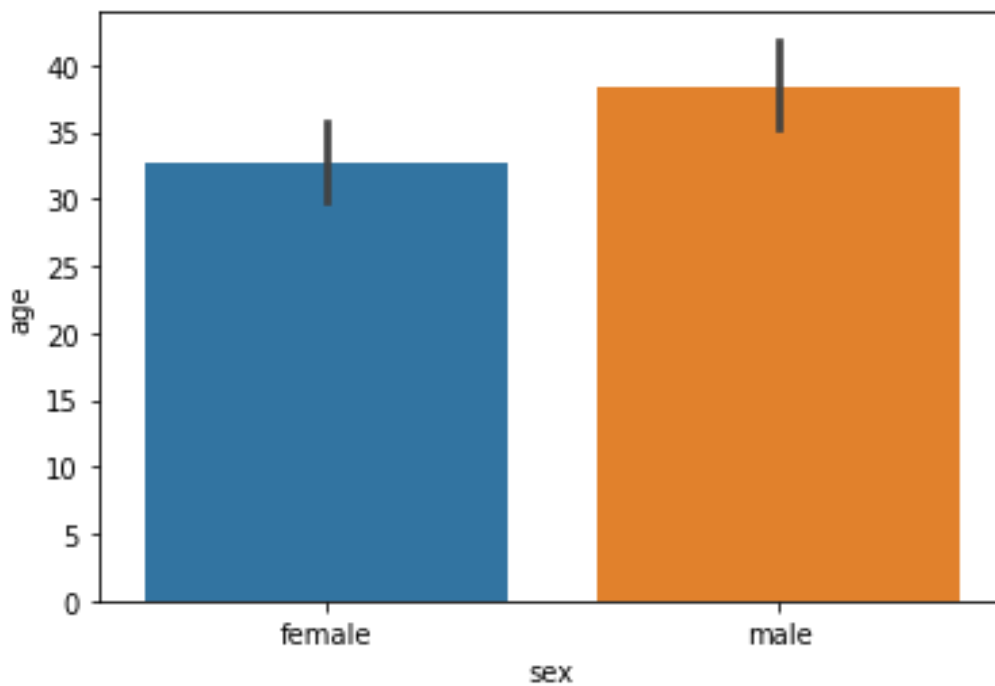


```
df = df.dropna()
sns.rugplot(df['fare'])
<matplotlib.axes._subplots.AxesSubplot at 0x7fd9e1ccd250>
```



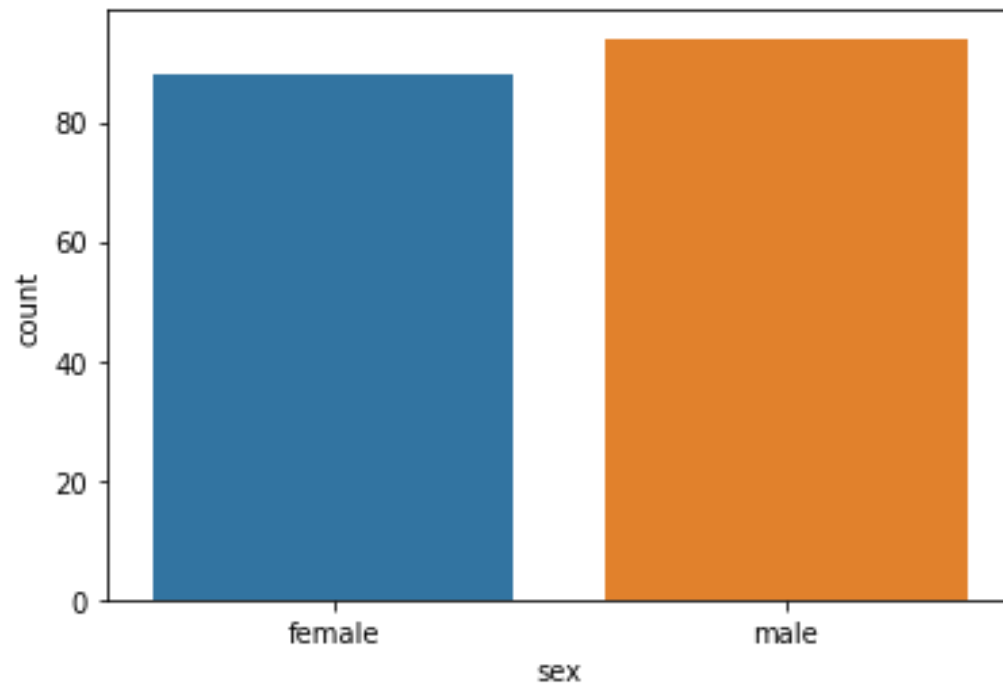
```
sns.barplot(x='sex', y='age', data=df)
```

```
<matplotlib.axes._subplots.AxesSubplot at 0x7efcc0b24d10>
```



```
sns.countplot(x='sex', data=df)
```

```
<matplotlib.axes._subplots.AxesSubplot at 0x7efcc0dae950>
```



```
sns.boxplot(x='sex', y='age', data=df)
```

```
<matplotlib.axes._subplots.AxesSubplot at 0x7efcc0e3d050>
```

