```
#PRIYA MORE(305C002)
```

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

```
df=pd.read_csv("titanic.csv")
```

```
df
```

	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	
0	1	0	3	Braund, Mr. Owen Harris	male	22.0	1	0	A/5 21171	7
1	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Th...	female	38.0	1	0	PC 17599	71
2	3	1	3	Heikkinen, Miss. Laina	female	26.0	0	0	STON/O2. 3101282	7
3	4	1	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35.0	1	0	113803	53
4	5	0	3	Allen, Mr. William Henry	male	35.0	0	0	373450	8
...	...	...	...	...	...	...	...	...	...	
886	887	0	2	Montvila, Rev. Juozas	male	27.0	0	0	211536	13
887	888	1	1	Graham, Miss. Margaret Edith	female	19.0	0	0	112053	30
888	889	0	3	Johnston, Miss. Catherine Helen "Carrie"	female	NaN	1	2	W./C. 6607	23
889	890	1	1	Behr, Mr. Karl Howell	male	26.0	0	0	111369	30
890	891	0	3	Dooley, Mr. Patrick	male	32.0	0	0	370376	7

891 rows × 12 columns

```
df.shape
```

```
(891, 12)
```

```
df.columns
```

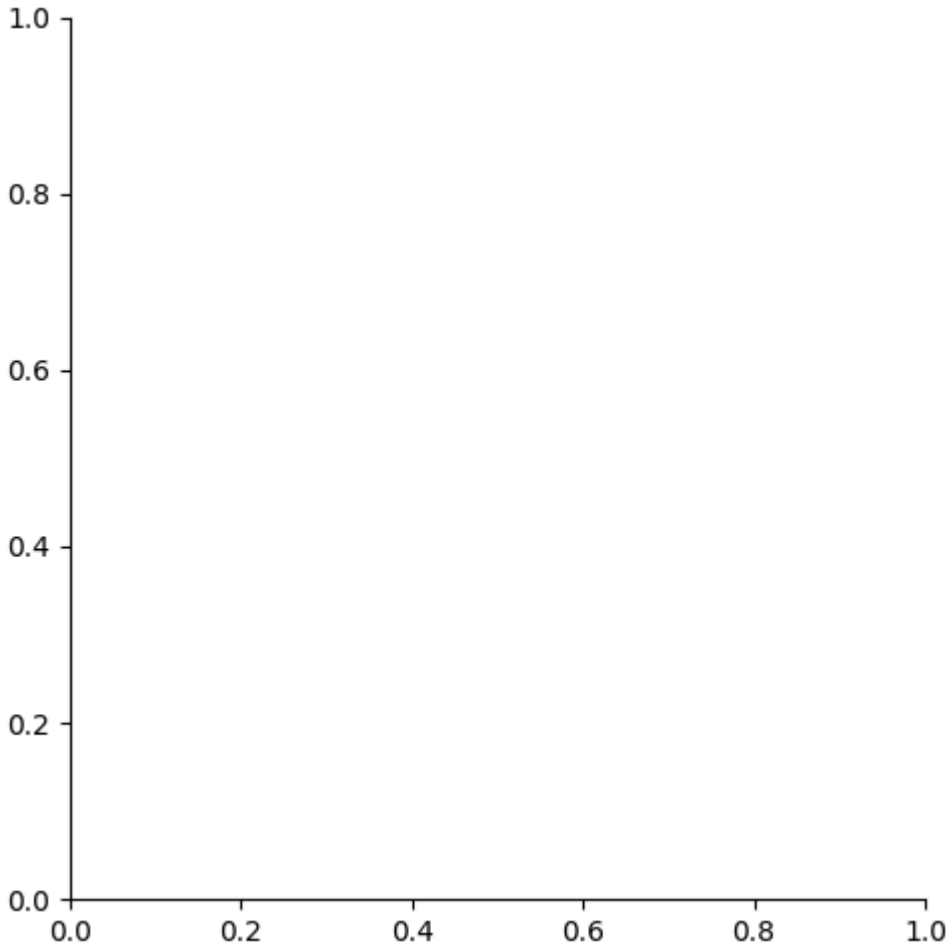
```
Index(['PassengerId', 'Survived', 'Pclass', 'Name', 'Sex', 'Age', 'SibSp',
       'Parch', 'Ticket', 'Fare', 'Cabin', 'Embarked'],
      dtype='object')
```

```
df.isnull().sum()
```

```
PassengerId      0
Survived         0
Pclass           0
Name             0
Sex              0
Age            177
SibSp            0
Parch            0
Ticket           0
Fare             0
Cabin          687
Embarked         2
dtype: int64
```

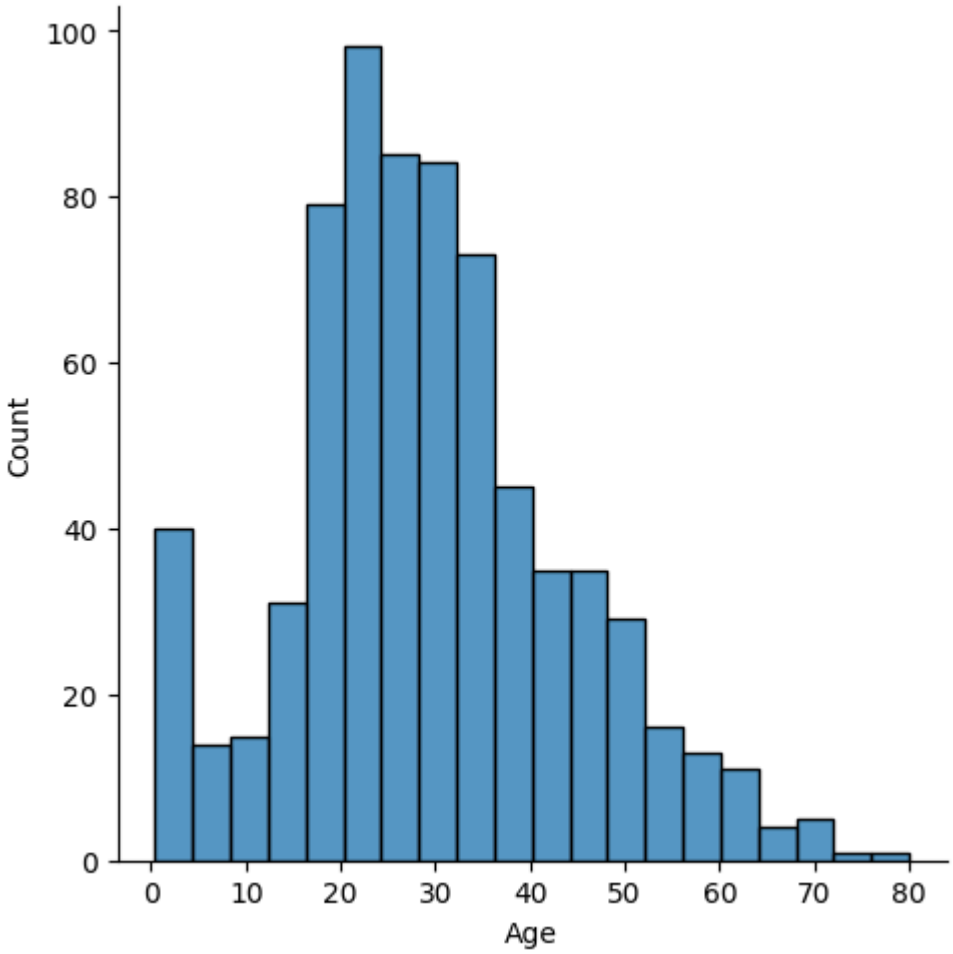
```
sns.displot()
```

```
<seaborn.axisgrid.FacetGrid at 0x78bd662893c0>
```



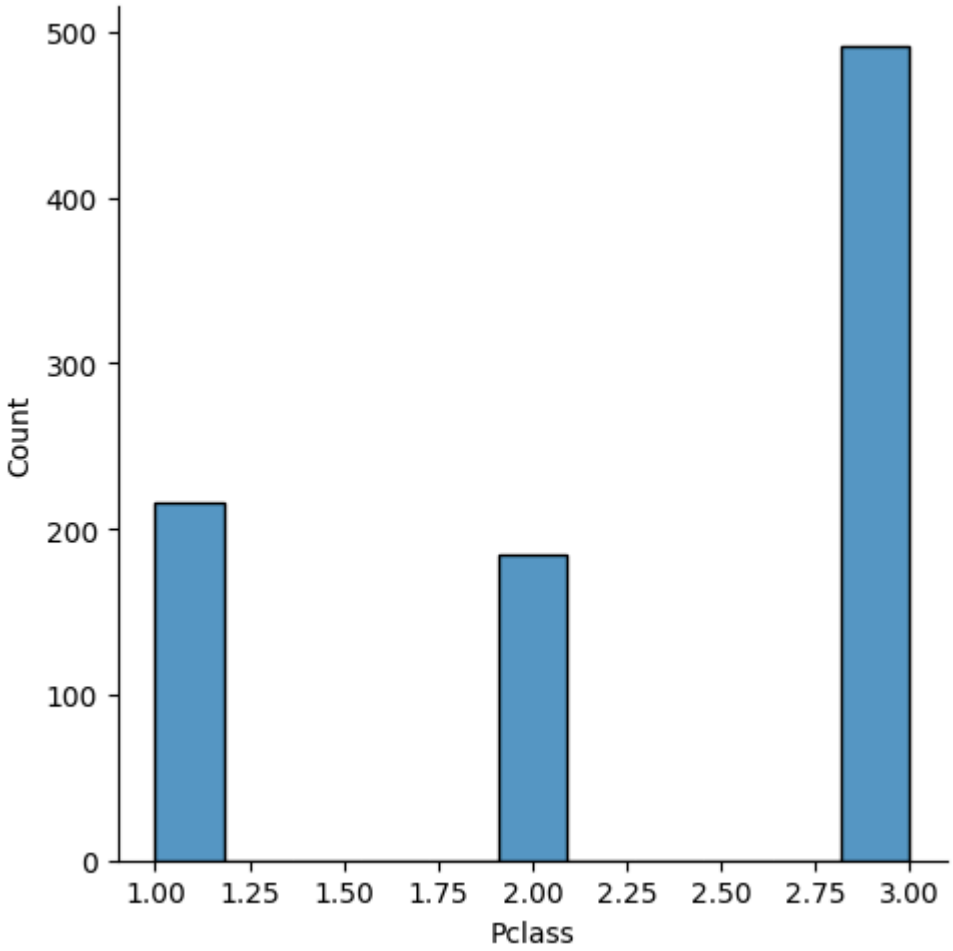

```
sns.displot(x=df['Age'])
```

```
<seaborn.axisgrid.FacetGrid at 0x78bd2f4a7a00>
```



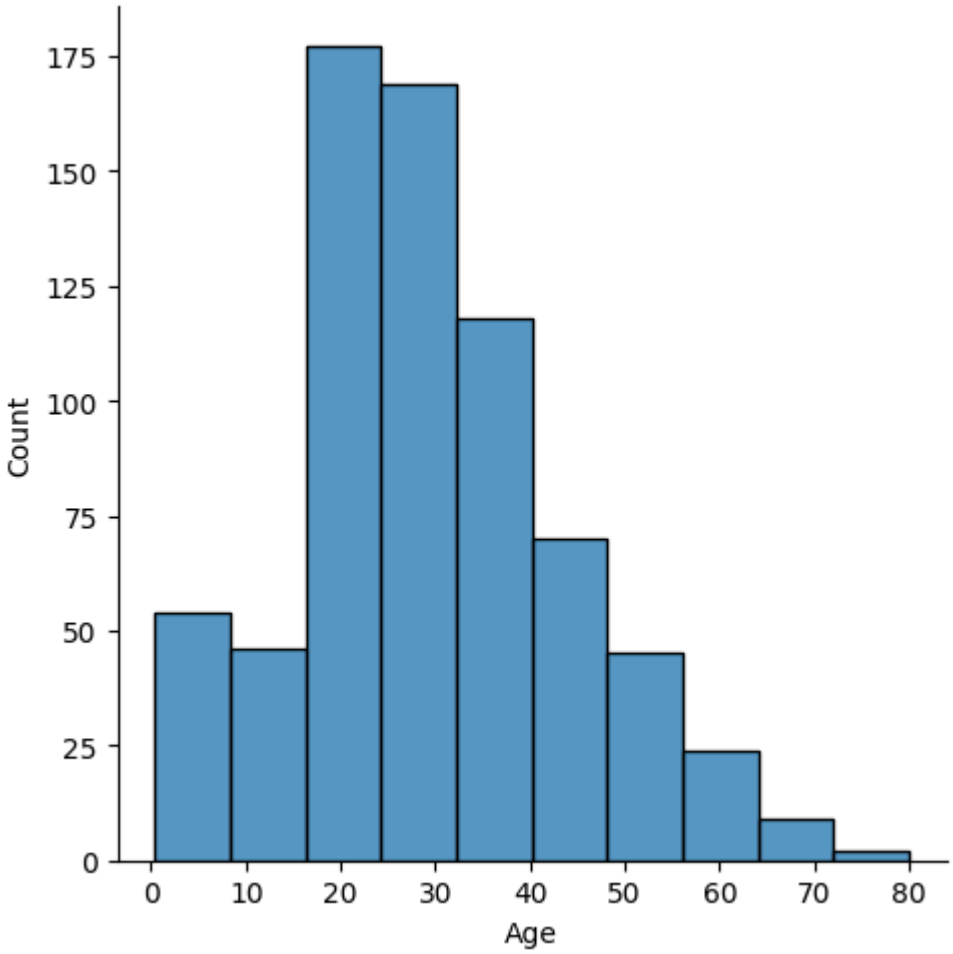

```
sns.displot(x=df['Pclass'])
```

```
<seaborn.axisgrid.FacetGrid at 0x78bd2f5a3cd0>
```

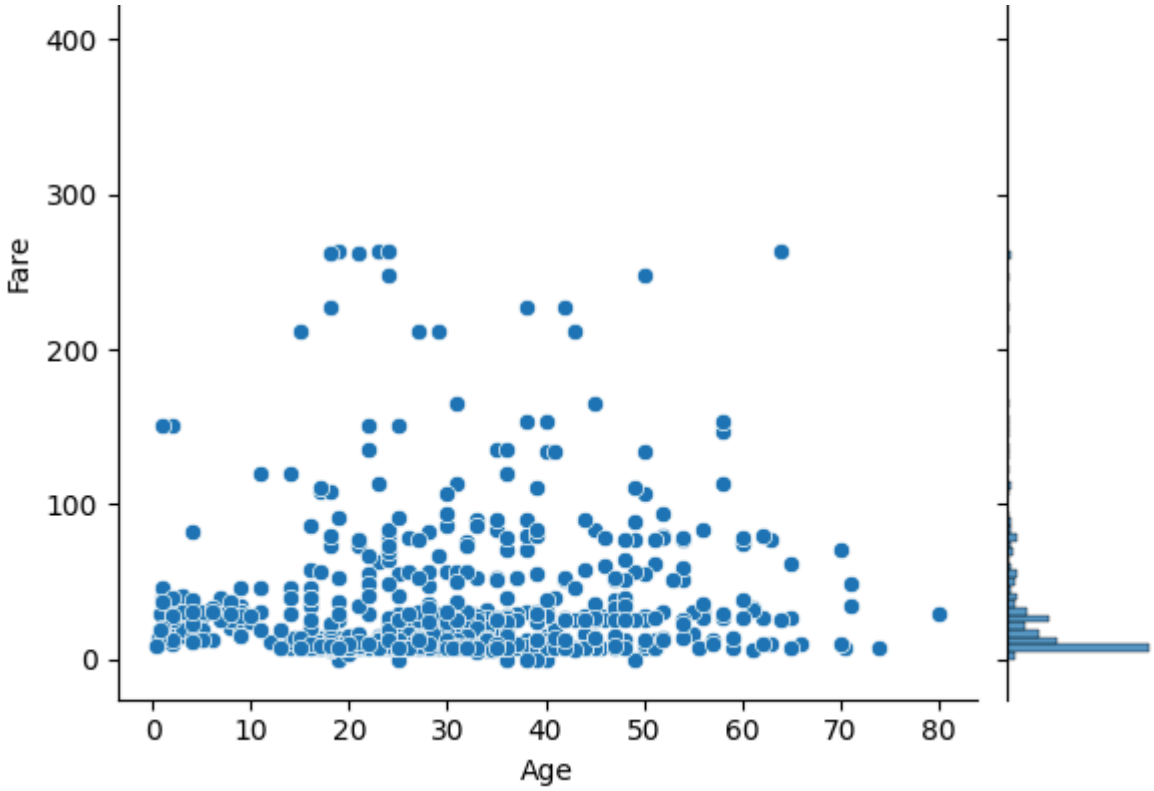


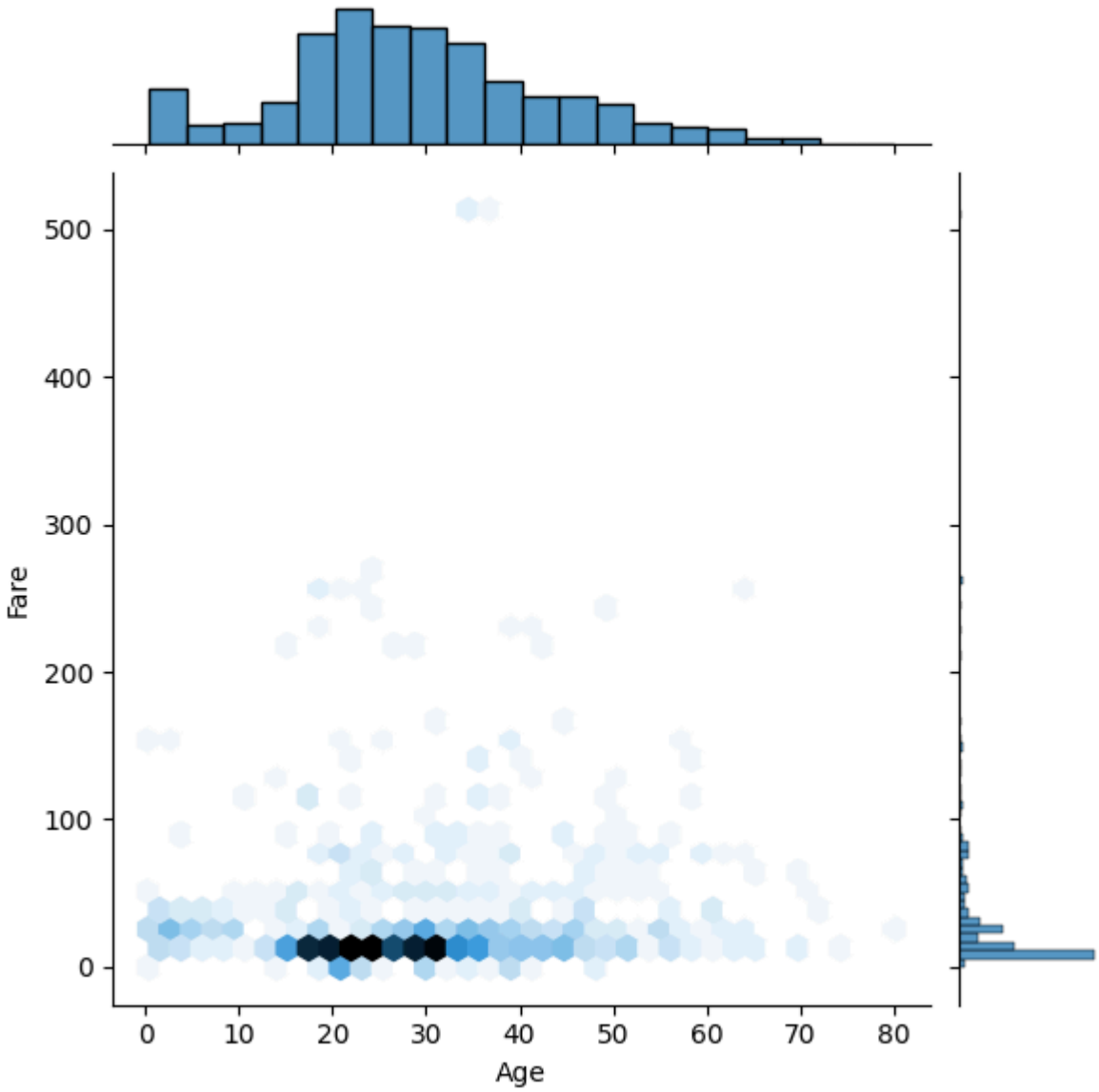

```
#foe dividing the data bins are used
sns.displot(x=df['Age'],bins=10)
```

```
<seaborn.axisgrid.FacetGrid at 0x78bd300f2590>
```




```
# joinplot    kind means which type of graph plot
sns.jointplot(x=df['Age'],y=df['Fare'],kind='scatter')
sns.jointplot(x=df['Age'],y=df['Fare'],kind='hex')
```


Fare
Age
0
100
200
300
400
0
10
20
30
40
50
60
70
80


Fare
Age
0
100
200
300
400
500
0
10
20
30
40
50
60
70
80

```
sns.pairplot(df)
```

```
<seaborn.axisgrid.PairGrid at 0x78bd2917b6a0>
```