```
In [17]:  import pandas as pd
          import seaborn as sns
          import numpy as np
```

```
In [18]:  df=pd.read_csv('tested.csv')
```

```
In [19]:  df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 418 entries, 0 to 417
Data columns (total 12 columns):
 #   Column       Non-Null Count  Dtype
---  ------       --------------  -----
 0   PassengerId  418 non-null    int64
 1   Survived     418 non-null    int64
 2   Pclass       418 non-null    int64
 3   Name         418 non-null    object
 4   Sex          418 non-null    object
 5   Age          332 non-null    float64
 6   SibSp        418 non-null    int64
 7   Parch        418 non-null    int64
 8   Ticket       418 non-null    object
 9   Fare         417 non-null    float64
 10  Cabin        91 non-null     object
 11  Embarked     418 non-null    object
dtypes: float64(2), int64(5), object(5)
memory usage: 39.3+ KB
```

```
In [20]:  df.isnull()
```

Out[20]:

	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare
0	False	False	False	False	False	False	False	False	False	False
1	False	False	False	False	False	False	False	False	False	False
2	False	False	False	False	False	False	False	False	False	False
3	False	False	False	False	False	False	False	False	False	False
4	False	False	False	False	False	False	False	False	False	False
...	...	...	...	...	...	...	...	...	...	...
413	False	False	False	False	False	True	False	False	False	False
414	False	False	False	False	False	False	False	False	False	False
415	False	False	False	False	False	False	False	False	False	False
416	False	False	False	False	False	True	False	False	False	False
417	False	False	False	False	False	True	False	False	False	False

418 rows × 12 columns

```
In [21]: df.isnull().sum()
```

```
Out[21]: PassengerId      0
         Survived         0
         Pclass           0
         Name             0
         Sex              0
         Age             86
         SibSp            0
         Parch            0
         Ticket           0
         Fare             1
         Cabin          327
         Embarked         0
         dtype: int64
```
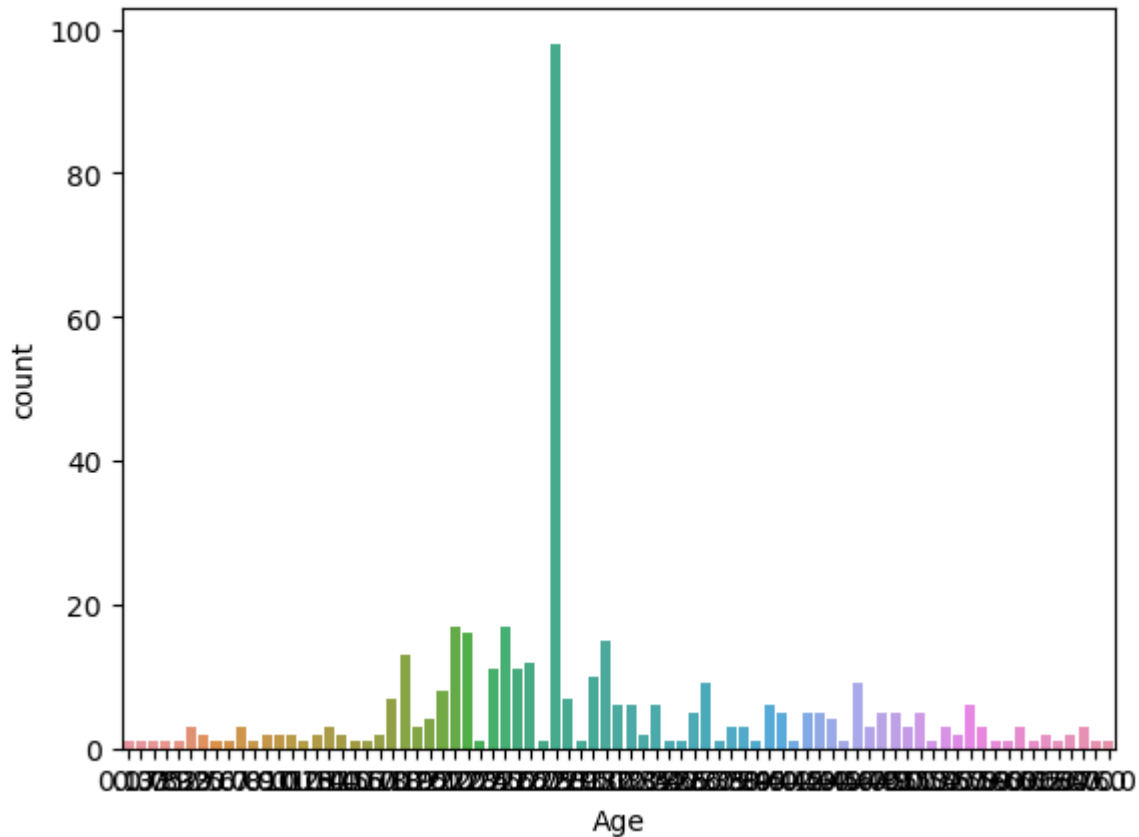
```
In [22]: df['Age']=df['Age'].fillna(df['Age'].median())
```

```
In [23]: df.isnull().sum()
```

```
Out[23]: PassengerId      0
         Survived         0
         Pclass           0
         Name             0
         Sex              0
         Age              0
         SibSp            0
         Parch            0
         Ticket           0
         Fare             1
         Cabin          327
         Embarked         0
         dtype: int64
```

```
In [29]: sns.countplot(x ='Age', data = df)
```

```
Out[29]: <Axes: xlabel='Age', ylabel='count'>
```

In [25]: `df.head()`

Out[25]:

|	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	
0	892	0	3	Kelly, Mr. James	male	34.5	0	0	330911	7.8
1	893	1	3	Wilkes, Mrs. James (Ellen Needs)	female	47.0	1	0	363272	7.0
2	894	0	2	Myles, Mr. Thomas Francis	male	62.0	0	0	240276	9.0
3	895	0	3	Wirz, Mr. Albert	male	27.0	0	0	315154	8.6
4	896	1	3	Hirvonen, Mrs. Alexander (Helga E Lindqvist)	female	22.0	1	1	3101298	12.

In [38]: `sns.countplot(x='Survived',data=df)`

Out[38]: `<Axes: xlabel='Survived', ylabel='count'>`
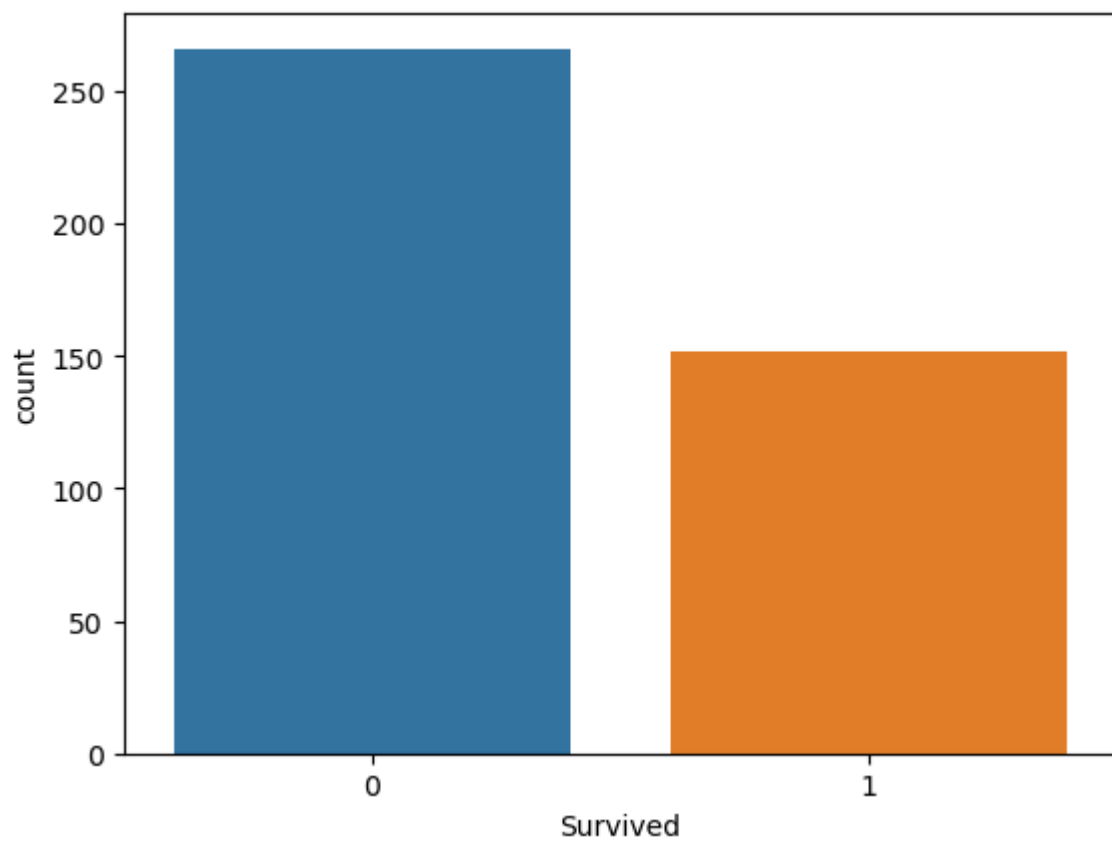
```
In [27]: sns.countplot(df['Survived'])
```

Out[27]: <Axes: ylabel='count'>
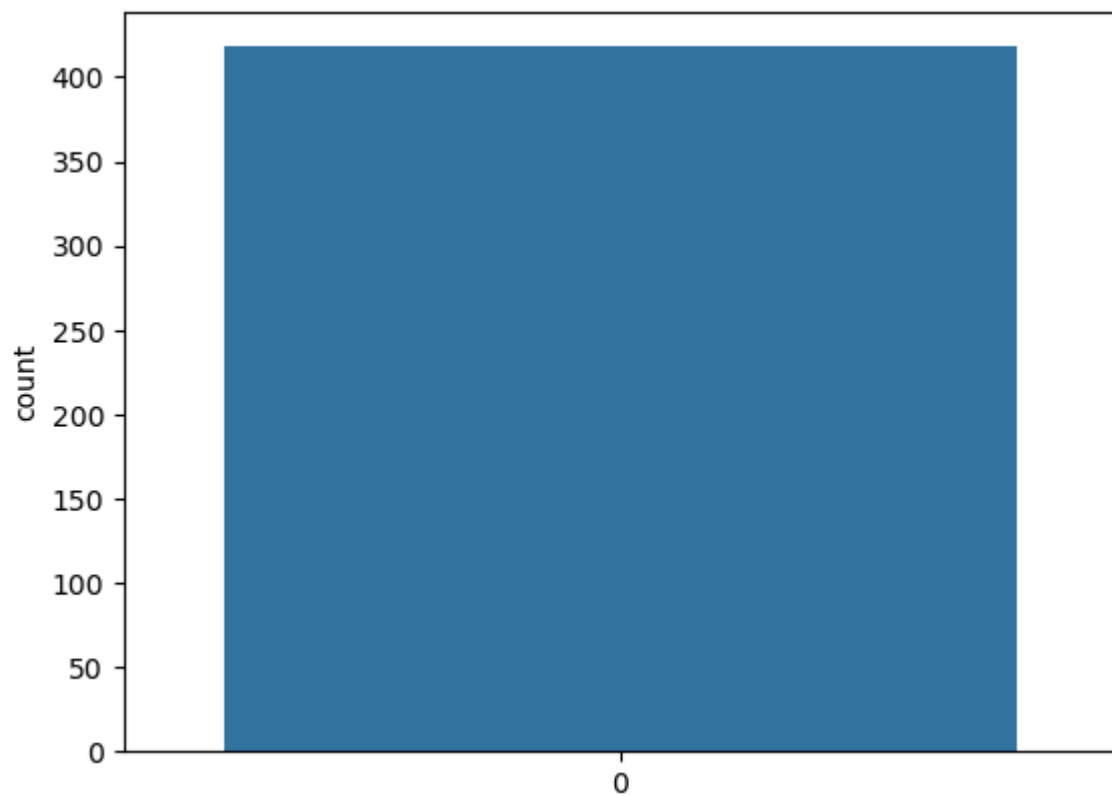
In [31]:
```python
sns.countplot(x ='Fare', data = df)
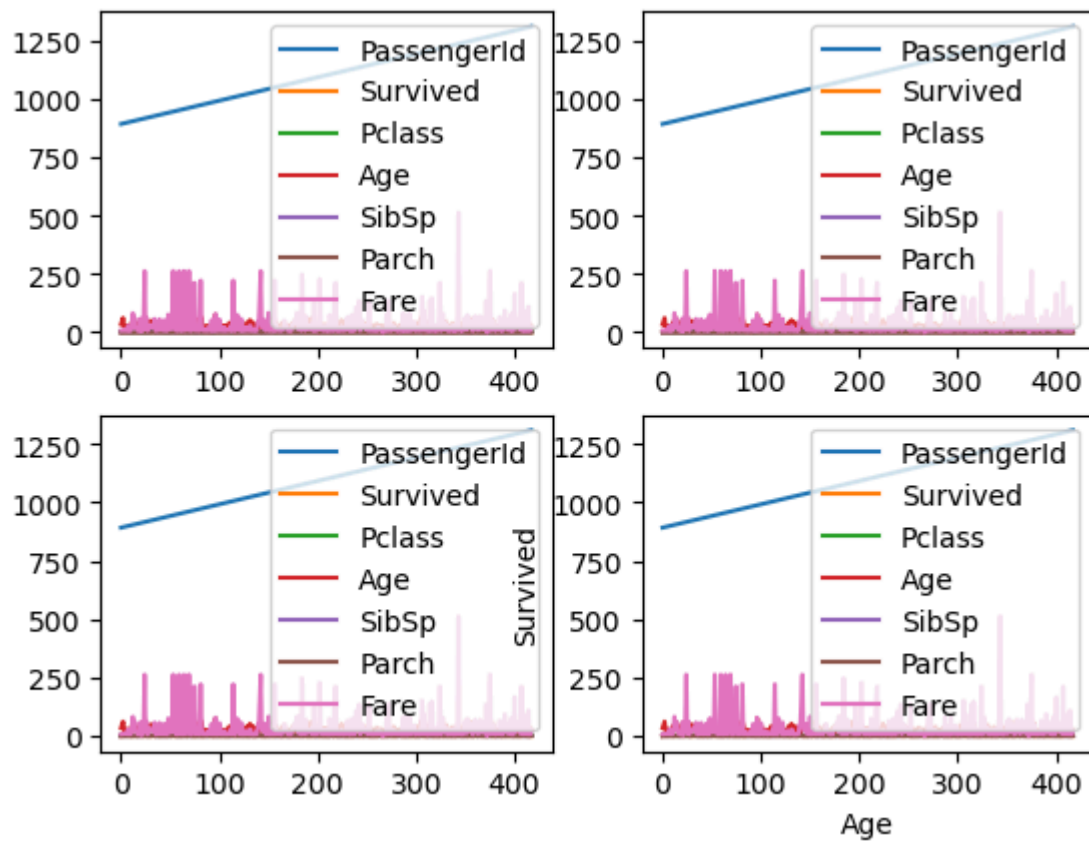```

Out[31]: `<Axes: xlabel='Fare', ylabel='count'>`
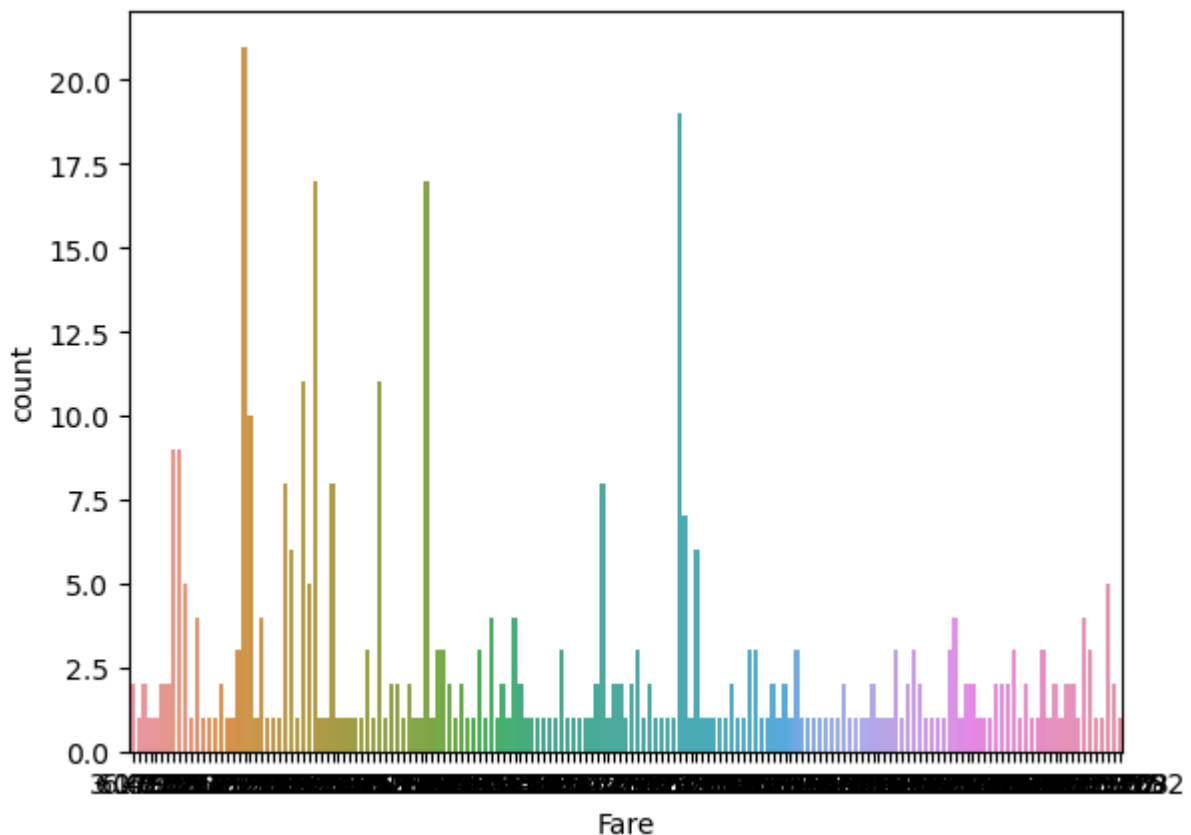


In [37]: 
```python
import matplotlib.pyplot as plt
fig, axes = plt.subplots(nrows=2, ncols=2)
df.plot(ax=axes[0,0])
df.plot(ax=axes[0,1])
df.plot(ax=axes[1,0])
df.plot(ax=axes[1,1])
sns.histplot(data=df,x='Age',y='Survived')
```

```
/Users/anvi/anaconda3/lib/python3.11/site-packages/seaborn/_oldcore.py:1119:
FutureWarning: use_inf_as_na option is deprecated and will be removed in a f
uture version. Convert inf values to NaN before operating instead.
  with pd.option_context('mode.use_inf_as_na', True):
/Users/anvi/anaconda3/lib/python3.11/site-packages/seaborn/_oldcore.py:1119:
FutureWarning: use_inf_as_na option is deprecated and will be removed in a f
uture version. Convert inf values to NaN before operating instead.
  with pd.option_context('mode.use_inf_as_na', True):
```

Out[37]: `<Axes: xlabel='Age', ylabel='Survived'>`

In [ ]: