```
5. Import any CSV file to Pandas DataFrame and perform the following: a. Visualize the first and last 10 records b. Do required statistical operations on the given columns. c. Find the count and uniqueness of the given categorical values.

import pandas as pd import numpy as np import seaborn as ans

+ Code + Markdown

df = pd.read_csv(*titanic_dataset.csv*)

Visualize the first and last 10 records

df.head(10)
```

```
Statistical operations on the given columns

df.isnull().sum()

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

```
df['Fare'].mean()

32.204207968574636

df['Fare'].median()

14.4542

df['Fare'].mode()

0 8.05
Name: Fare, dtype: float64

df['Fare'].std()

49.6934285971809

df['Fare'].var()

2469.436845743116
```

```
c. Find the count and uniqueness of the given categorical values.
    df['Sex'].value_counts()
 male
          577
 female
         314
 Name: Sex, dtype: int64
    df['Sex'].value_counts(ascending=True)
 female
         314
 male 577
 Name: Sex, dtype: int64
    df['Fare'].value_counts(bins=7)
 (-0.513, 73.19]
                      789
(73.19, 146.38]
                      71
 (146.38, 219.57]
                       15
(219.57, 292.76]
                       13
 (439.139, 512.329]
                       3
 (292.76, 365.949]
                        0
 (365.949, 439.139]
```

0

Name: Fare, dtvpe: int64

```
df['Fare'].value_counts().max

cbound method NOFrame._add_numeric_operations.<locals>.max of 8.0500 43

13.0000 42

7.3995 38

7.7500 34

26.0000 31

...

35.0000 1

10.5167 1

Name: Fare, Length: 248, dtype: int64>

We can see most people paid under 73.19 for their ticket.

df['Cabin'].value_counts()

B96 B98 4

66 4

623 C25 C27 4

622 C26 3

F33 3

...

E34 1

C7 1

C54 1
```

```
B96 B98
              4
G6
              4
C23 C25 C27
             4
C22 C26
F33
              3
E34
              1
C7
              1
C54
              1
E36
              1
C148
              1
Name: Cabin, Length: 147, dtype: int64
   df['Embarked'].value_counts()
S
    644
С
    168
Q
     77
Name: Embarked, dtype: int64
```