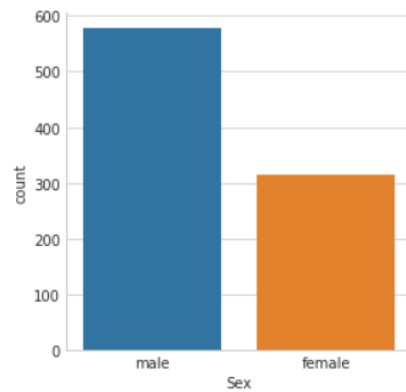


Lab Exercise 1

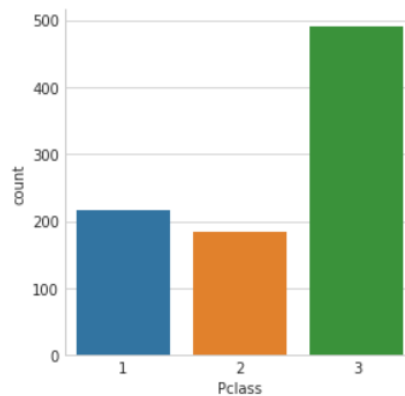
- 1- Load the train.csv file into a dataframe.
- 2- Describe the dataframe.
- 3- Show the first 5 rows.

| | PassengerId | Survived | Pclass | Name | Sex | Age | SibSp | Parch | Ticket | Fare | Cabin | Embarked |
|---|-------------|----------|--------|---|--------|------|-------|-------|------------------|---------|-------|----------|
| 0 | 1 | 0 | 3 | Braund, Mr. Owen Harris | male | 22.0 | 1 | 0 | A/5 21171 | 7.2500 | NaN | S |
| 1 | 2 | 1 | 1 | Cumings, Mrs. John Bradley (Florence Briggs Th... | female | 38.0 | 1 | 0 | PC 17599 | 71.2833 | C85 | C |
| 2 | 3 | 1 | 3 | Heikinen, Miss. Laina | female | 26.0 | 0 | 0 | STON/O2. 3101282 | 7.9250 | NaN | S |
| 3 | 4 | 1 | 1 | Futrelle, Mrs. Jacques Heath (Lily May Peel) | female | 35.0 | 1 | 0 | 113803 | 53.1000 | C123 | S |
| 4 | 5 | 0 | 3 | Allen, Mr. William Henry | male | 35.0 | 0 | 0 | 373450 | 8.0500 | NaN | S |

1- Bar charts of count of Males and Females

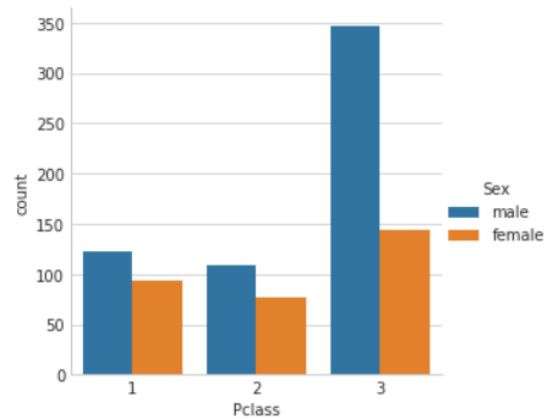


2- Histograms of Pclass



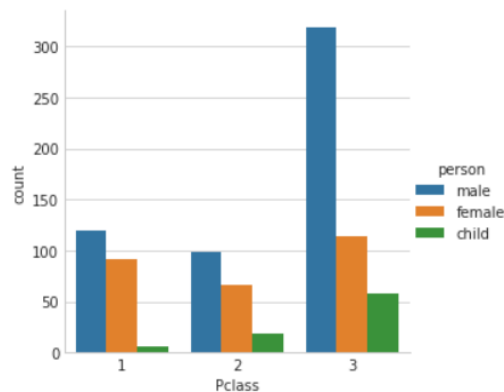
3- Bar charts of males that were survived and females that were survived

4- Bar charts of males and females from each passenger class.



4- A combined bar chart of males and females from each passenger class that survived?

5- Create a new column named Person, if (age < 16), the person is a child otherwise return gender. Now plot the bar graph of each class for each person in the same graph.



6- Draw Histograms of age attribute, bins should be set to 10.