```
#Importing All Required Libaries
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt

from warnings import filterwarnings
filterwarnings(action='ignore')

#Loading Datasets
pd.set_option('display.max_columns',10,'display.width',1000)
train = pd.read_csv('train.csv')
test = pd.read_csv('test.csv')
train.head()
```

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

[5 rows x 12 columns]
```

```
#Display shape
train.shape
```

```
(891, 12)
```

```
test.shape
```

```
(418, 11)
```

```
#Checking for Null values
train.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
```

```
test.isnull().sum()
```

```
PassengerId      0
Pclass           0
Name             0
Sex              0
Age             86
SibSp            0
Parch            0
Ticket           0
Fare             1
Cabin          327
Embarked         0
dtype: int64
```

```
#Description of dataset
train.describe(include="all")
```

```
        PassengerId    Survived      Pclass                          Name
Sex  ...       Parch  Ticket        Fare    Cabin  Embarked
count    891.000000  891.000000  891.000000                           891
891  ...  891.000000     891  891.000000      204       889
unique          NaN         NaN         NaN                          891
2  ...         NaN     681         NaN      147         3
top             NaN         NaN         NaN  Braund, Mr. Owen Harris
male  ...         NaN  347082         NaN  B96 B98         S
freq            NaN         NaN         NaN                            1
577  ...         NaN       7         NaN        4       644
mean     446.000000    0.383838    2.308642                           NaN
NaN  ...    0.381594     NaN   32.204208      NaN       NaN
std      257.353842    0.486592    0.836071                           NaN
NaN  ...    0.806057     NaN   49.693429      NaN       NaN
min        1.000000    0.000000    1.000000                           NaN
NaN  ...    0.000000     NaN    0.000000      NaN       NaN
25%      223.500000    0.000000    2.000000                           NaN
NaN  ...    0.000000     NaN    7.910400      NaN       NaN
50%      446.000000    0.000000    3.000000                           NaN
NaN  ...    0.000000     NaN   14.454200      NaN       NaN
75%      668.500000    1.000000    3.000000                           NaN
NaN  ...    0.000000     NaN   31.000000      NaN       NaN
max      891.000000    1.000000    3.000000                           NaN
```

```
NaN  ...    6.000000     NaN  512.329200      NaN       NaN

[11 rows x 12 columns]
```

```
male_ind = len(train[train['Sex'] == 'male'])
print("No of Males in Titanic:",male_ind)
```

```
No of Males in Titanic: 577
```

```
female_ind = len(train[train['Sex'] == 'female'])
print("No of Females in Titanic:",female_ind)
```

```
No of Females in Titanic: 314
```