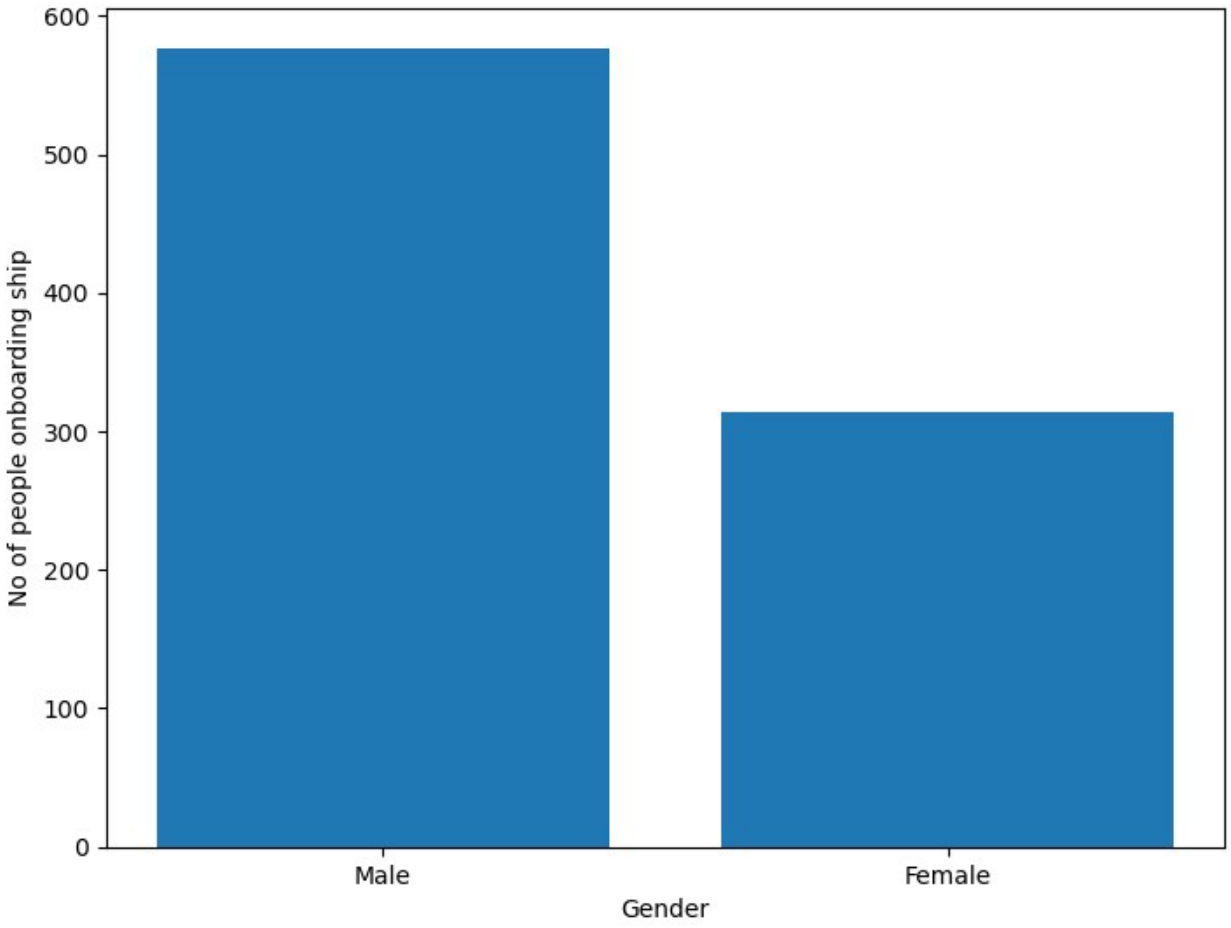
```
#Importing All Required Libaries
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt

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]
```

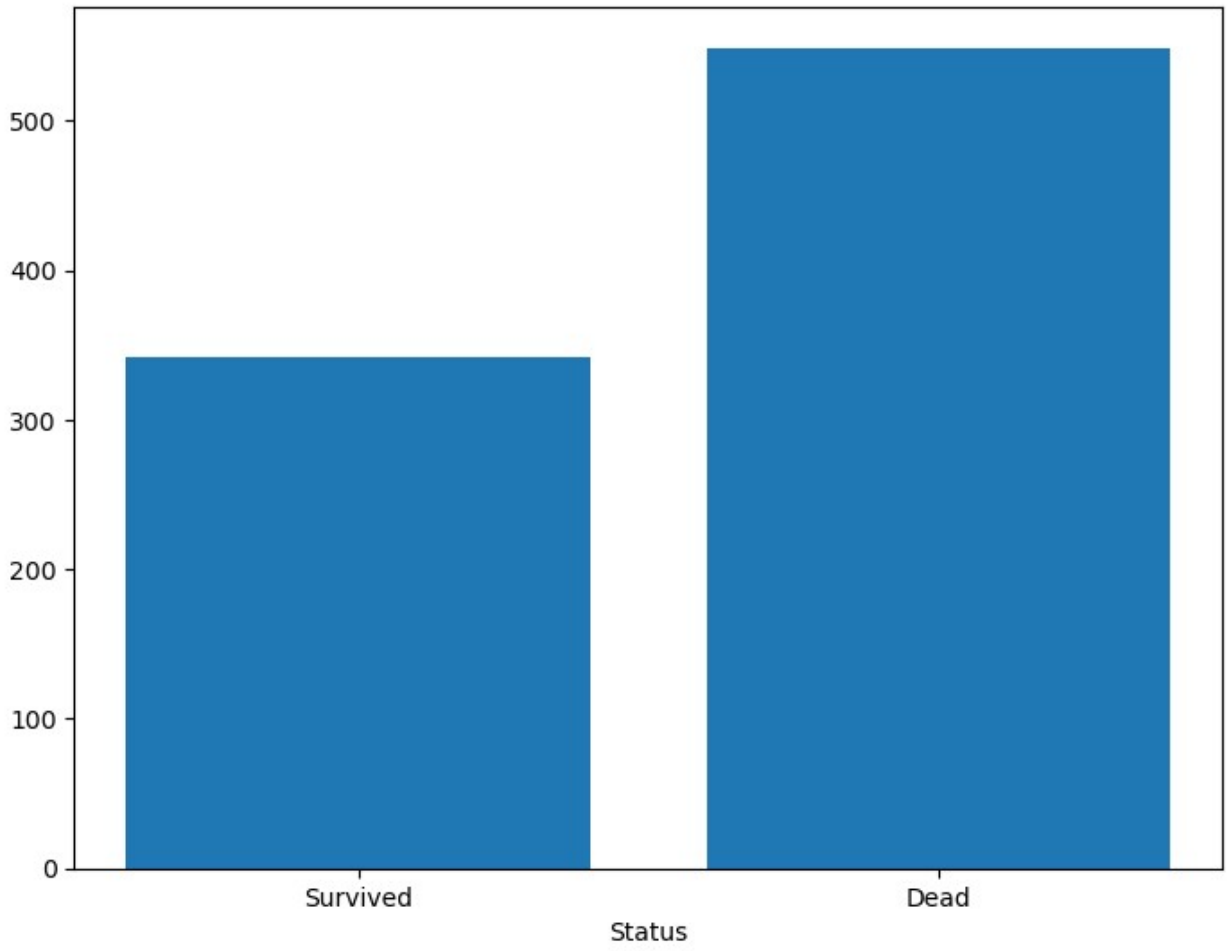
```
#Plotting
fig = plt.figure()
ax = fig.add_axes([0,0,1,1])
gender = ['Male','Female']
index = [577,314]
ax.bar(gender,index)
plt.xlabel("Gender")
plt.ylabel("No of people onboarding ship")
plt.show()
```




```
alive = len(train[train['Survived'] == 1])
dead = len(train[train['Survived'] == 0])

train.groupby('Sex')[['Survived']].mean()
```

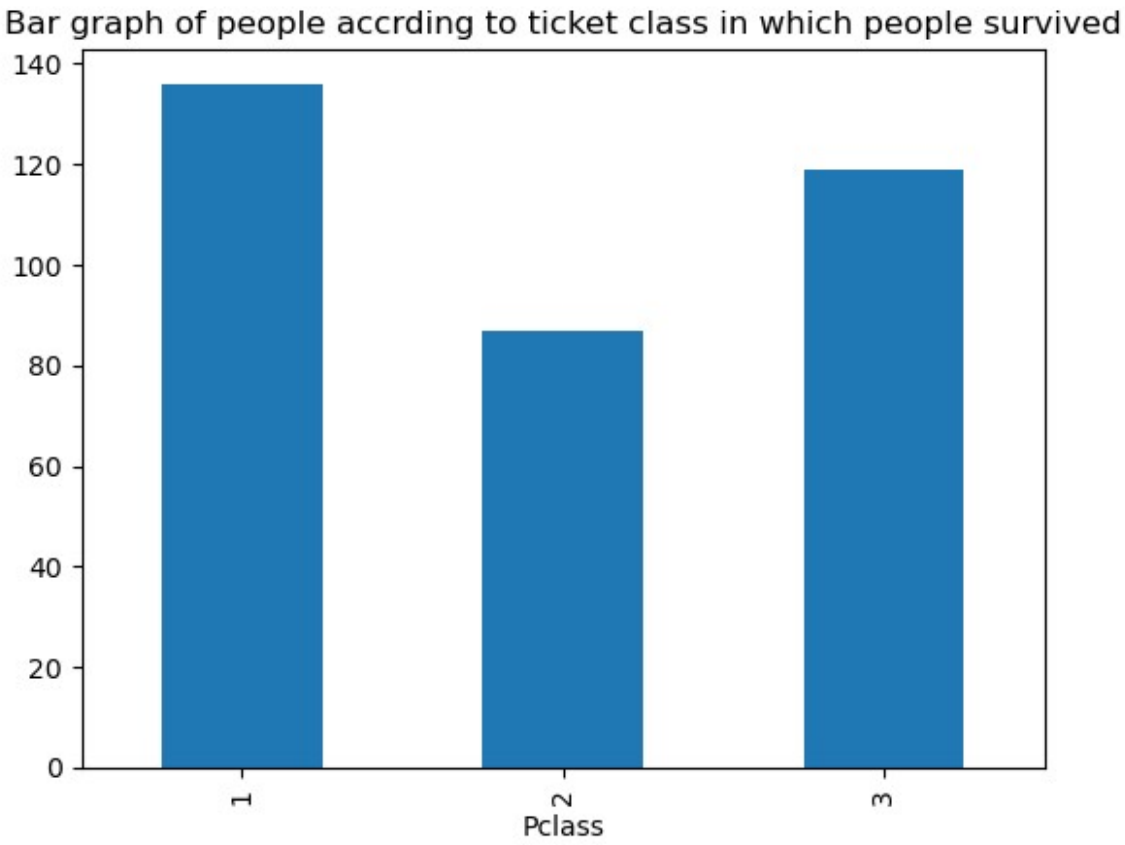
```
        Survived
Sex
female  0.742038
male    0.188908
```

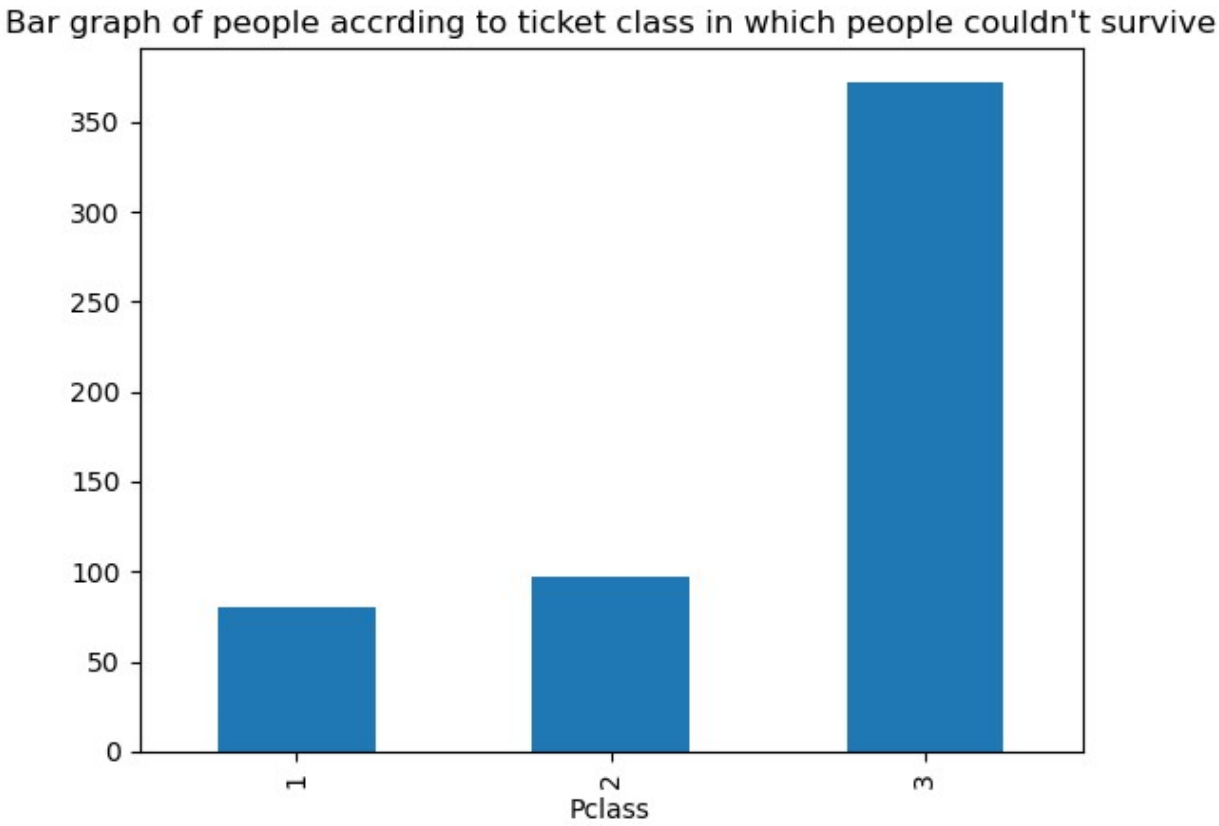
```
fig = plt.figure()
ax = fig.add_axes([0,0,1,1])
status = ['Survived','Dead']
ind = [alive,dead]
ax.bar(status,ind)
plt.xlabel("Status")
plt.show()
```




```
plt.figure(1)
train.loc[train['Survived'] == 1,
'Pclass'].value_counts().sort_index().plot.bar()
plt.title('Bar graph of people accrding to ticket class in which
people survived')


plt.figure(2)
train.loc[train['Survived'] == 0,
'Pclass'].value_counts().sort_index().plot.bar()
plt.title('Bar graph of people accrding to ticket class in which
people couldn\'t survive')
```

```
Text(0.5, 1.0, "Bar graph of people accrding to ticket class in which
people couldn't survive")
```

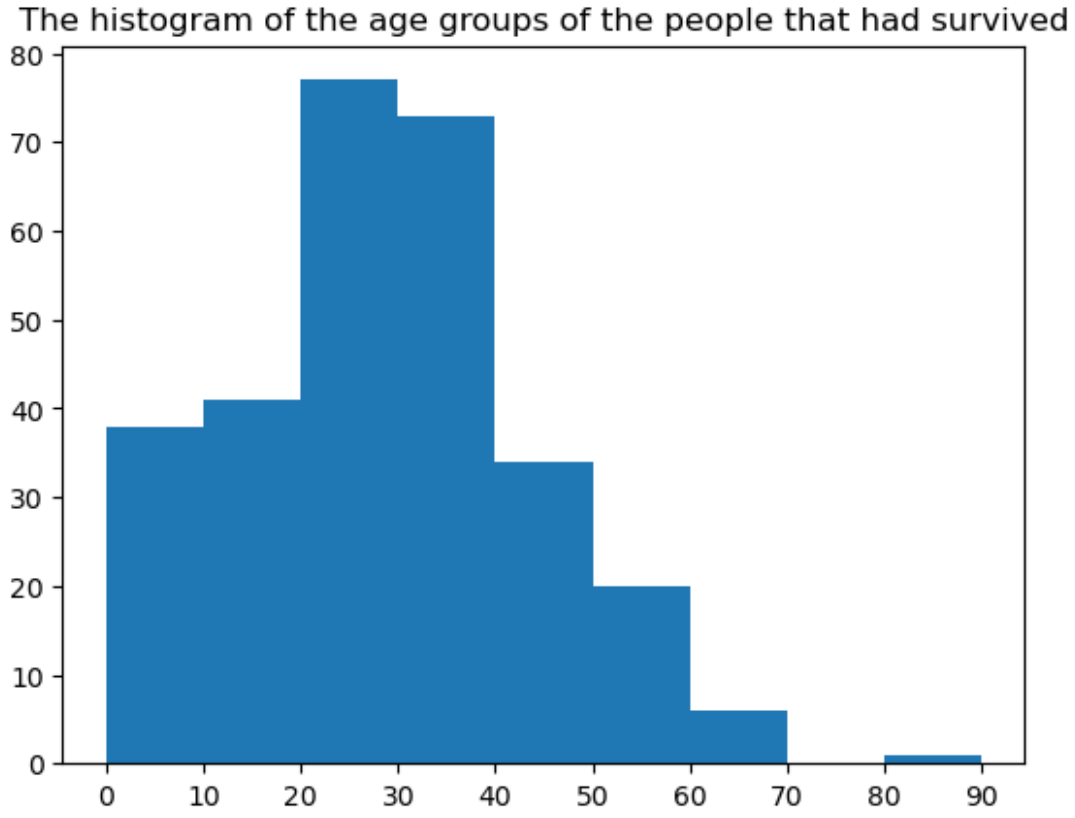

Bar graph of people accrding to ticket class in which people survived
140
120
100
80
60
40
20
0
1
2
3
Pclass

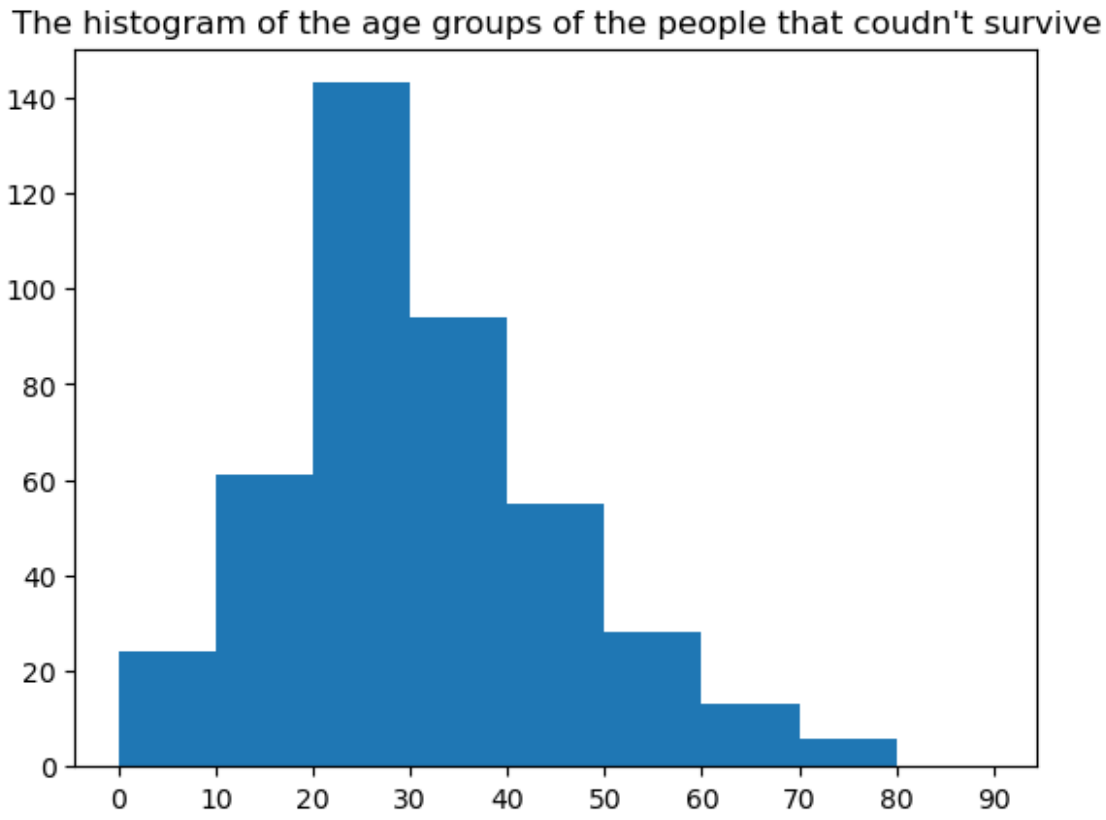



```
plt.figure(1)
age  = train.loc[train.Survived == 1, 'Age']
plt.title('The histogram of the age groups of the people that had
survived')
plt.hist(age, np.arange(0,100,10))
plt.xticks(np.arange(0,100,10))


plt.figure(2)
age  = train.loc[train.Survived == 0, 'Age']
plt.title('The histogram of the age groups of the people that coudn\'t
survive')
plt.hist(age, np.arange(0,100,10))
plt.xticks(np.arange(0,100,10))
```

```
([<matplotlib.axis.XTick at 0x2644e36a0f0>,
  <matplotlib.axis.XTick at 0x2644e431e80>,
  <matplotlib.axis.XTick at 0x2644e431cd0>,
  <matplotlib.axis.XTick at 0x2644e7ae2d0>,
  <matplotlib.axis.XTick at 0x2644e7aeb40>,
  <matplotlib.axis.XTick at 0x2644e7af470>,
  <matplotlib.axis.XTick at 0x2644e7afda0>,
  <matplotlib.axis.XTick at 0x2644e7e0770>,
  <matplotlib.axis.XTick at 0x2644e7af620>,
```

```
 <matplotlib.axis.XTick at 0x2644e7e0e90>],
[Text(0, 0, '0'),
 Text(10, 0, '10'),
 Text(20, 0, '20'),
 Text(30, 0, '30'),
 Text(40, 0, '40'),
 Text(50, 0, '50'),
 Text(60, 0, '60'),
 Text(70, 0, '70'),
 Text(80, 0, '80'),
 Text(90, 0, '90')])
```




The histogram of the age groups of the people that coudn't survive
140
120
100
80
60
40
20
0
0
10
20
30
40
50
60
70
80
90