1. Total no of Passengers
2. No of alive Passenger
3. No of dead Passenger
4. Total Fare Price
5. Gender based Classification
6. Passenger by class
7. Survival & died percentage
8. Survive by gender
9. Died by Gender
10 Passenger based on Age Group

PYTHON CODE

Importing libraries

```
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
```

Linking dataset

```
titanic=pd.read_excel("/content/drive/MyDrive/Practice Datasets/Titanic DS.xlsx")
```

Calculating values

```
total=titanic.shape[0]
print('Total no of passengers:',total)

survival=titanic['survived'].value_counts()
print('\nNo of Alive Passenger:',survival[1])
print('No of dead Passenger:',survival[0])

total_fare=titanic['fare'].sum()
print('\nTotal Fare Price:',round(total_fare,2))
```

Output:

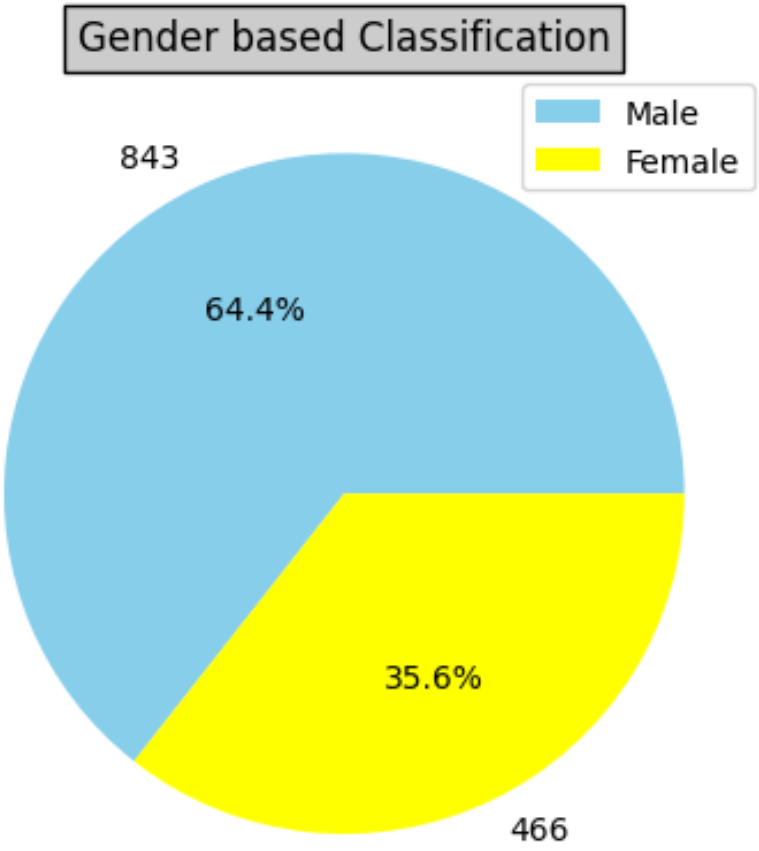
```
Total no of passengers: 1309

No of Alive Passenger: 500
No of dead Passenger: 809

Total Fare Price: 43550.49
```

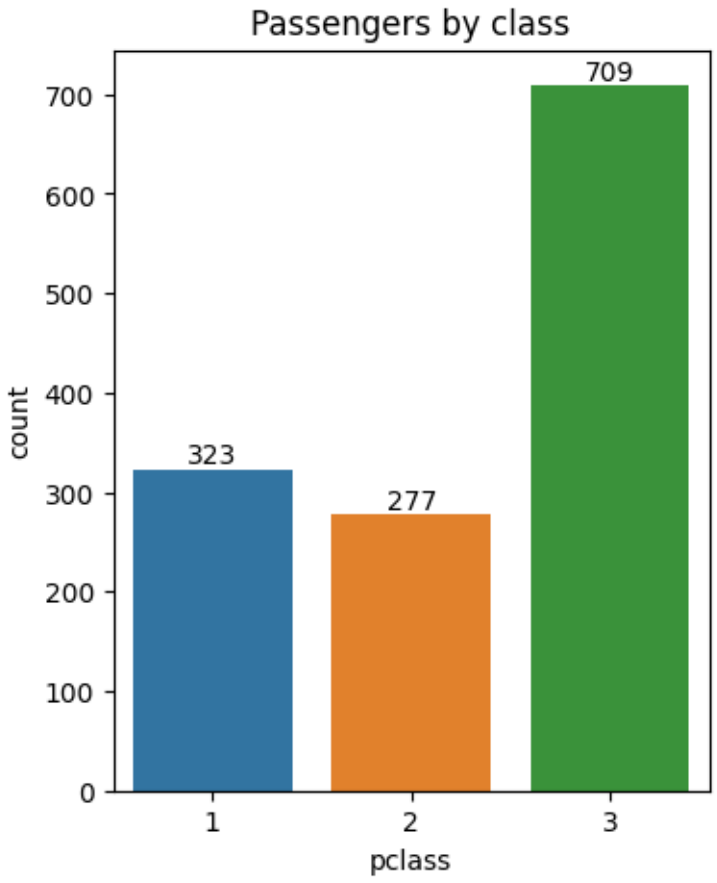
Gender based classification

```
y=titanic['sex'].value_counts()
plt.pie(y, autopct='%0.1f%%', labels=[y[0],y[1]],
colors=["#87CEEB",'yellow'])
plt.title('Gender based Classification', bbox={'facecolor':'0.8'})
plt.legend(['Male','Female'])
plt.show()
```



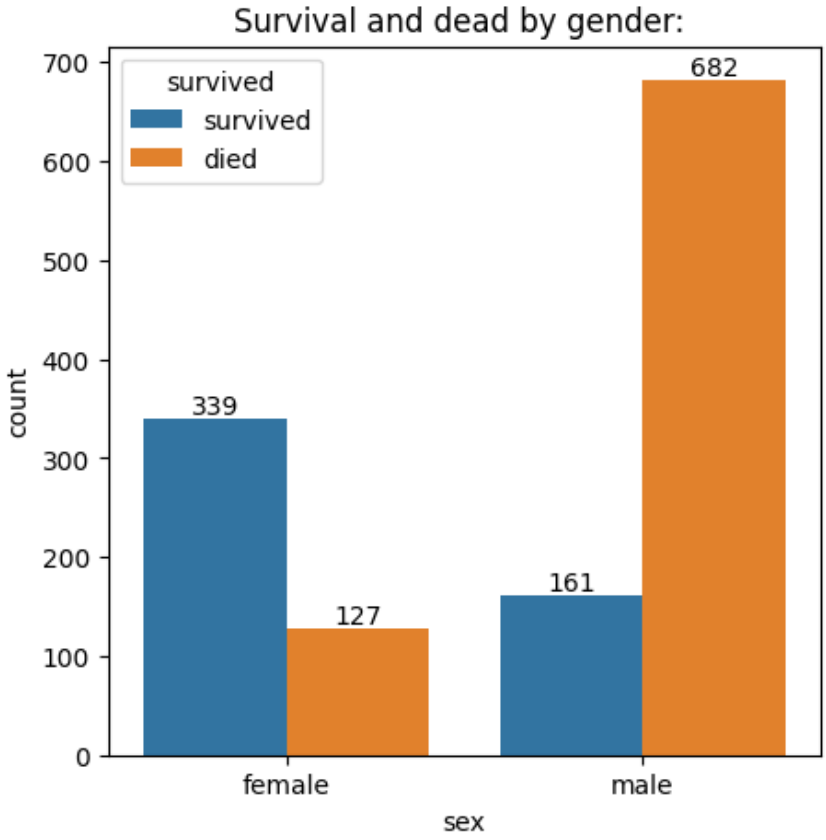
Passengers by class

```
plt.figure(figsize=(4,5))
a=sns.countplot(titanic,x=titanic['pclass'])
for i in a.containers:
  a.bar_label(i)
plt.title('Passengers by class')
plt.show()
```



Survival and dead by gender

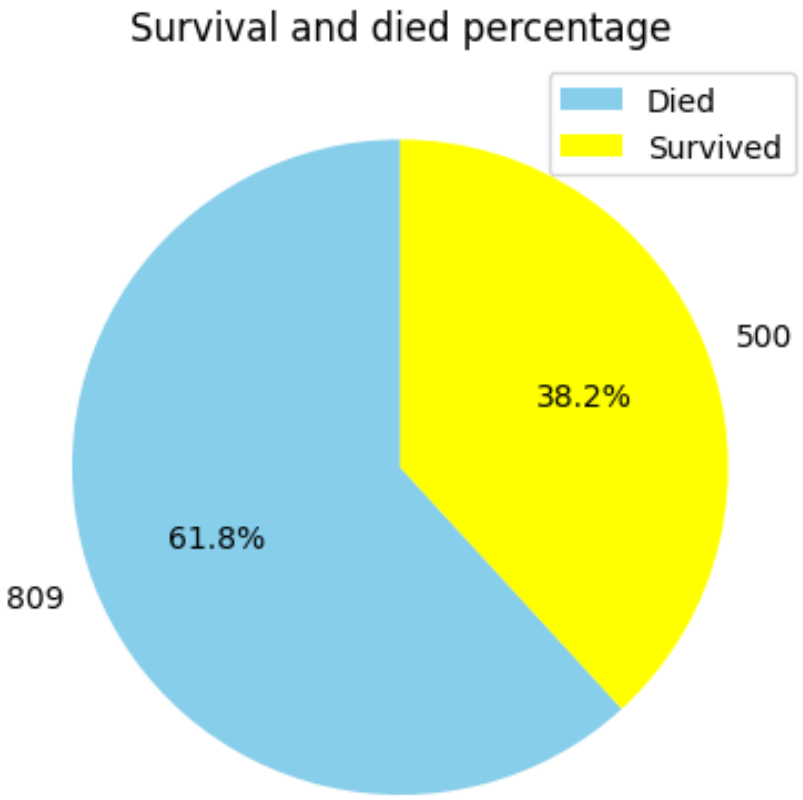
```
plt.figure(figsize=(5,5))
x=sns.countplot(data = titanic, x = titanic["sex"],hue="survived")
for i in x.containers:
    x.bar_label(i)
plt.title("Survival and dead by gender")
plt.show()
```



Survival and died percentage

```
z=titanic['survived'].value_counts()

plt.pie(z,labels=[z[0],z[1]],autopct='%0.1f%%',colors=["#87CEEB",'yello
w'],startangle=90)
plt.title('Survival and died percentage')
plt.legend(['Died','Survived'])
plt.show()
```

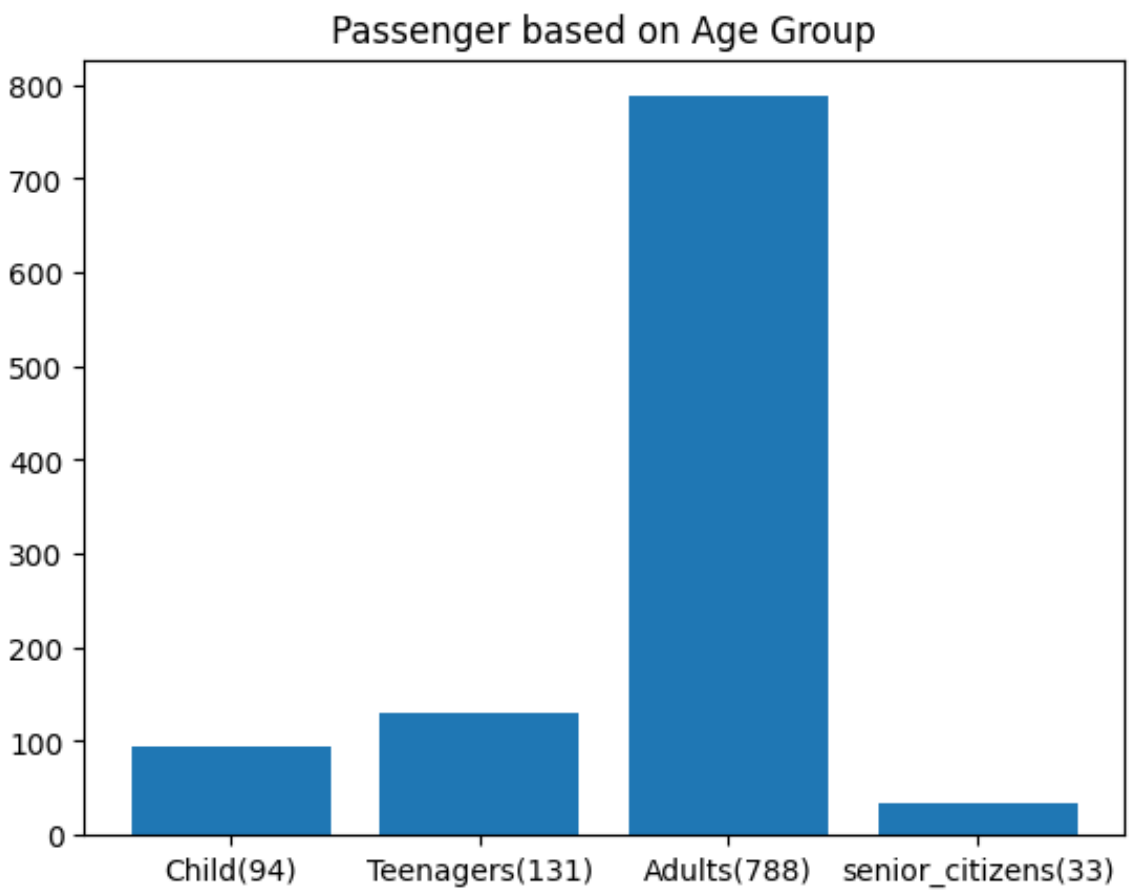


Passengers based on age group

```
a=titanic['age'].dropna()

child=a[a<=12].count()
teenagers=a[(a>12) & (a<=19)].count()
adults=a[(a>19) & (a<=60)].count()
senior_citizens=a[a>60].count()

x = ["Child"+'('+str(child)+')', "Teenagers"+'('+str(teenagers)+')',
     "Adults"+'('+str(adults)+')',
"senior_citizens"+'('+str(senior_citizens)+')']
y = [child, teenagers, adults, senior_citizens]
plt.bar(x,y)
plt.title('Passenger based on Age Group')
plt.show()
```


Passenger based on Age Group
800
700
600
500
400
300
200
100
0
Child(94)
Teenagers(131)
Adults(788)
senior_citizens(33)