

```
3.import pandas as pd
from matplotlib import pyplot as plt
```

```
import pandas as pd

titanic_train = pd.read_csv('/content/train.csv')
titanic_test = pd.read_csv('/content/test.csv')
```



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```
L=[10,20,50,60,20,99]
print(L)

[10, 20, 50, 60, 20, 99]
```

```
titanic_train.head

<bound method NDFrame.head of      PassengerId  Survived  Pclass \
0             1         0       3
1             2         1       1
2             3         1       3
3             4         1       1
4             5         0       3
..          ...      ...      ...
886          887         0       2
887          888         1       1
888          889         0       3
889          890         1       1
890          891         0       3

      Name      Sex  Age  SibSp \
0  Braund, Mr. Owen Harris    male  22.0      1
1  Cumings, Mrs. John Bradley (Florence Briggs Th...  female  38.0      1
2    Heikkinen, Miss. Laina  female  26.0      0
3  Futrelle, Mrs. Jacques Heath (Lily May Peel)  female  35.0      1
4    Allen, Mr. William Henry    male  35.0      0
..          ...      ...      ...      ...
886  Montvila, Rev. Juozas    male  27.0      0
887    Graham, Miss. Margaret Edith  female  19.0      0
888  Johnston, Miss. Catherine Helen "Carrie"  female   NaN      1
889    Behr, Mr. Karl Howell    male  26.0      0
890    Dooley, Mr. Patrick    male  32.0      0

      Parch      Ticket    Fare Cabin Embarked
0         0   A/5 21171    7.2500   NaN      S
1         0    PC 17599   71.2833   C85      C
2         0  STON/O2. 3101282   7.9250   NaN      S
3         0   113803   53.1000  C123      S
4         0   373450    8.0500   NaN      S
..          ...      ...      ...      ...
886         0   211536   13.0000   NaN      S
887         0   112053   30.0000   B42      S
888         2    W./C. 6607   23.4500   NaN      S
889         0   111369   30.0000  C148      C
890         0   370376    7.7500   NaN      Q

[891 rows x 12 columns]>
```

```
titanic_test.shape

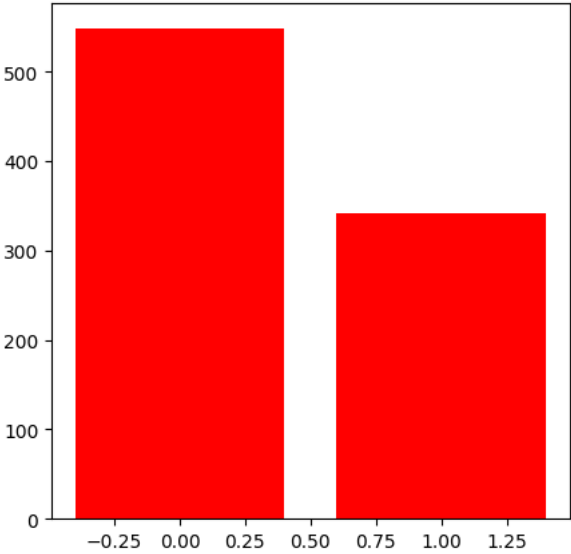
(418, 11)
```

```
survived_counts = titanic_train['Survived'].value_counts()
print(survived_counts)

0    549
1    342
Name: Survived, dtype: int64
```

```
import matplotlib.pyplot as plt

plt.figure(figsize=(5, 5))
plt.bar(list(titanic_train['Survived'].value_counts().keys()), list(titanic_train['Survived'].value_counts()), color="r")
plt.show()
```

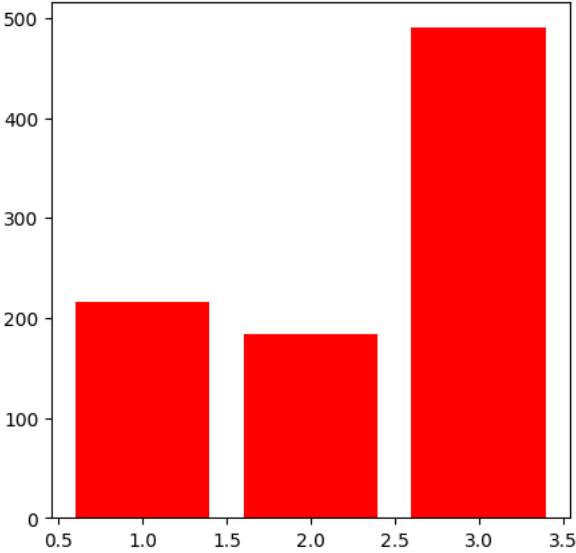


```
titanic_train['Pclass'].value_counts()

3    491
1    216
2    184
Name: Pclass, dtype: int64
```

```
import matplotlib.pyplot as plt

plt.figure(figsize=(5, 5))
plt.bar(list(titanic_train['Pclass'].value_counts().keys()), list(titanic_train['Pclass'].value_counts()), color="r")
plt.show()
```



```
test_data = pd.read_csv("/content/test.csv")
test_data.head()
```

	PassengerId	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked
0	892	3	Kelly, Mr. James	male	34.5	0	0	330911	7.8292	NaN	Q
1	893	3	Wilkes, Mrs. James (Ellen Needs)	female	47.0	1	0	363272	7.0000	NaN	S
2	894	2	Myles, Mr. Thomas Francis	male	62.0	0	0	240276	9.6875	NaN	Q
3	895	3	Wirz, Mr. Albert	male	27.0	0	0	315154	8.6625	NaN	S

```
train_data = pd.read_csv("/content/train.csv")
train_data.head()
```

	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	
1	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs T. B.)	female	38.0	1	0	PC 17599	71.2833	C85	

```
women = train_data.loc[train_data.Sex == 'female']["Survived"]
rate_women = sum(women)/len(women)
```

```
print("% of women who survived:", rate_women)

% of women who survived: 0.7420382165605095
```

```
men = train_data.loc[train_data.Sex == 'male']["Survived"]
rate_men = sum(men)/len(men)
```

```
print("% of men who survived:", rate_men)

% of men who survived: 0.18890814558058924
```

