## **Titanic Survival Analysis**

```
import pandas as pd
import matplotlib.pyplot as mp
stored_data = pd.read_csv("gender_submission.csv")
print(stored_data)
stored_data.rename(columns={"PassengerId":"Id","Survived":"Status for clarity" },inplace=True)
print(stored_data)
print(stored_data.head())
print(stored_data.tail())
print(stored_data.shape)
print(stored_data.info())
filter=stored_data[stored_data["Status for clarity"]==1].head(10)
print(filter)
filter=stored_data[stored_data["Status for clarity"]==0].head(10)
print(filter)
count=stored_data["Status for clarity"].value_counts()
print(count[1])
print(count[0])
total=len(stored_data)
servivor=count[1]
per1=servivor/total
print(per1)
nonservivor=count[0]
per2=nonservivor/total
print(per2)
count.plot(kind='bar',color=["red","green"])
mp.xlabel("status")
mp.ylabel("no of persons")
mp.title("survivor vs nonsurvivor")
mp.xticks(rotation=0)
mp.show()
```

## output

```
PS C:\Users\slava\python.1\python> & 'c:\Program Files\Python313\python.exe' 'c:\Users\slava\.vscode\extensions\ms-p ython.debugpy-2025.10.0-win32-x64\bundled\libs\debugpy\launcher' '57855' '--' 'c:\Users\slava\python.1\python\index.p
      PassengerId Survived
                 893
                 894
                 895
                 896
..
413
               1305
               1306
415
416
                1307
                1308
                1309
[418 rows x 2 columns]
        Id Status for clarity
        893
        894
        895
        896
..
413
      1305
414 1306
      1307
416 1308
417 1309
[418 rows x 2 columns]
     Id Status for clarity
    892
    893
   894
    895
         Id Status for clarity
413 1305
414 1306
       1307
```

```
t8 rows x 2 columns<sub>]</sub>
Id Status for clarity
0
[418 rows x 2 columns]
   892
2 894
3 895
4 896
                                0
      Id Status for clarity
1305 0
413 1305
414 1306
415 1307
                                    0
416 1308
417 1309
(418, 2)

⟨class 'pandas.core.frame.DataFrame'⟩

RangeIndex: 418 entries, 0 to 417
Data columns (total 2 columns):
 # Column
                              Non-Null Count Dtype
0 Id 418 non-null
1 Status for clarity 418 non-null
dtypes: int64(2)
                               418 non-null
                                                      int64
                                                     int64
memory usage: 6.7 KB
None
     Id Status for clarity
    896
6
8
12
    898
     900
    904
14
    906
15
18
     910
19
22
    914
           Status for clarity
     892
                                  0
     894
     895
     897
```

```
415 1307
416 1308
417 1309
(418, 2)
<class 'pandas.core.frame.DataFrame'>
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# Column
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1 Status for clarity 418 non-null
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     Id Status for clarity
    893
    896
    898
    900
12 904
    906
   907
18 910
     Id Status for clarity
    894
    895
    897
    899
    901
                            0
0
   902
11 903
    905
16 908
                            0
0.36363636363636365
<u>0</u>.6363636363636364
```

