Lab 2

The `titanic` dataset contains data on 887 Titanic passengers, including each passenger's survival status, embarkation location, cabin class, and sex. Write a program that performs the following tasks:

- Load the dataset in `titanic.csv` as `titanic`.
- Create a new data frame, `first South`, by subsetting `titanic` to include instances where a passenger is in the first class cabin (`pclass` feature is 1) and boarded from Southampton (`embarked` feature is S).
- Create a new data frame, `secondThird`, by subsetting `titanic` to include instances where a passenger is either in the second (`pclass` feature is 2) or third class (`pclass` feature is 3) cabin.
- Create bar charts for the following:
    - Passengers in first class who embarked in Southampton grouped by sex
    - Passengers in second and third class grouped by survival status

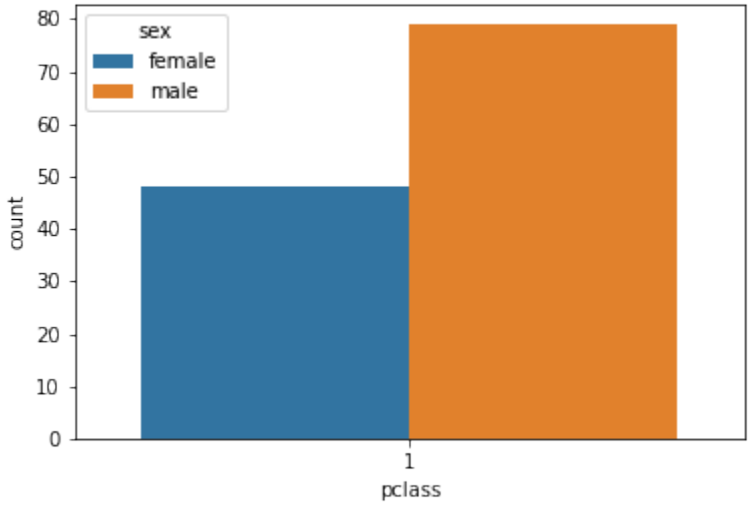
The output should be (could differ slightly but would be almost similar):

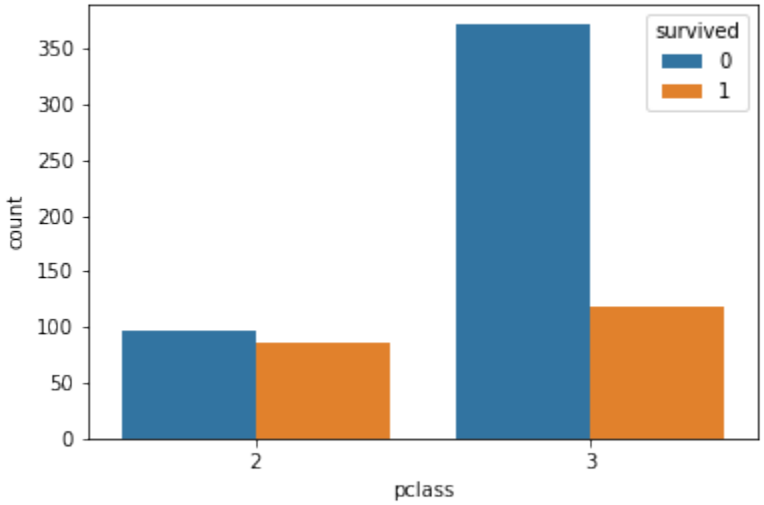
```
    survived  pclass     sex   age  ...  deck  embark_town  alive  alone
3          1       1  female  35.0  ...     C  Southampton    yes  False
6          0       1    male  54.0  ...     E  Southampton     no   True
11         1       1  female  58.0  ...     C  Southampton    yes   True
23         1       1    male  28.0  ...     A  Southampton    yes   True
27         0       1    male  19.0  ...     C  Southampton     no  False

[5 rows x 15 columns]
   survived  pclass     sex   age  ...  deck  embark_town  alive  alone
0         0       3    male  22.0  ...   NaN  Southampton     no  False
2         1       3  female  26.0  ...   NaN  Southampton    yes   True
4         0       3    male  35.0  ...   NaN  Southampton     no   True
5         0       3    male   NaN  ...   NaN   Queenstown     no   True
7         0       3    male   2.0  ...   NaN  Southampton     no  False

[5 rows x 15 columns]
```

`[5 rows x 15 columns]`


sex
female
male
count
pclass
1


survived
0
1
count
pclass
2
3