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CommandsCodeTextRun all

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[1] import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns

[2] df = sns.load_dataset('titanic')
df.head()

	survived	pclass	sex	age	sibsp	parch	fare	embarked	class	who	adult_male	deck	embark_town	alive	alone
0	0	3	male	22.0	1	0	7.2500	S	Third	man	True	NaN	Southampton	no	False
1	1	1	female	38.0	1	0	71.2833	C	First	woman	False	C	Cherbourg	yes	False
2	1	3	female	26.0	0	0	7.9250	S	Third	woman	False	NaN	Southampton	yes	True
3	1	1	female	35.0	1	0	53.1000	S	First	woman	False	C	Southampton	yes	False
4	0	3	male	35.0	0	0	8.0500	S	Third	man	True	NaN	Southampton	no	True

Next steps: [Generate code with df](#) [View recommended plots](#) [New interactive sheet](#)

[3] df.info()
df.isnull().sum()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 891 entries, 0 to 890
Data columns (total 15 columns):
Column Non-Null Count Dtype

0 survived 891 non-null int64
1 pclass 891 non-null int64
2 sex 891 non-null object
3 age 714 non-null float64
4 sibsp 891 non-null int64
...

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VariablesTerminal

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```
4 sibsp      891 non-null    int64
5 parch      891 non-null    int64
6 fare       891 non-null    float64
7 embarked   889 non-null    object
8 class      891 non-null    category
9 who        891 non-null    object
10 adult_male 891 non-null    bool
11 deck      203 non-null    category
12 embark_town 889 non-null    object
13 alive     891 non-null    object
14 alone     891 non-null    bool
dtypes: bool(2), category(2), float64(2), int64(4), object(5)
memory usage: 80.7+ KB
```

```
0
survived    0
pclass     0
sex        0
age       177
sibsp      0
parch      0
fare       0
embarked    2
class      0
who        0
adult_male  0
deck       688
embark_town 2
alive      0
```

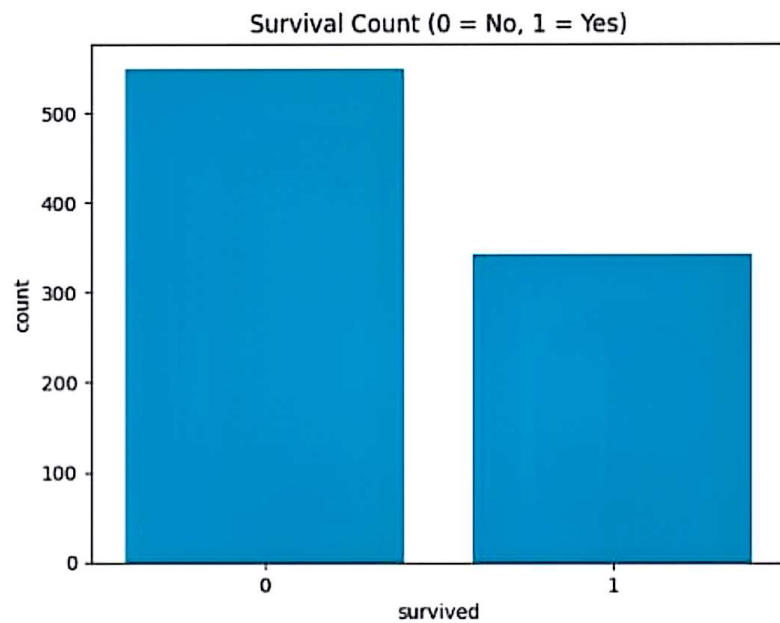
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```
alive    0
alone    0
dtype: int64
```

```
[7] sns.countplot(x='survived', data=df)
plt.title('Survival Count (0 = No, 1 = Yes)')
plt.show()
```



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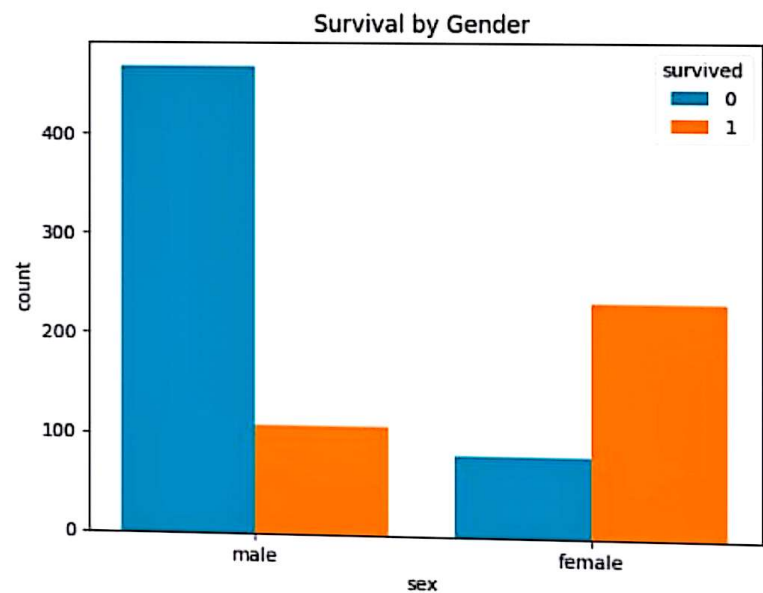
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```
[8] sns.countplot(x='sex', hue='survived', data=df)
plt.title('Survival by Gender')
plt.show()
```



```
[9] sns.countplot(x='pclass', hue='survived', data=df)
plt.title('Survival by Class')
plt.show()
```

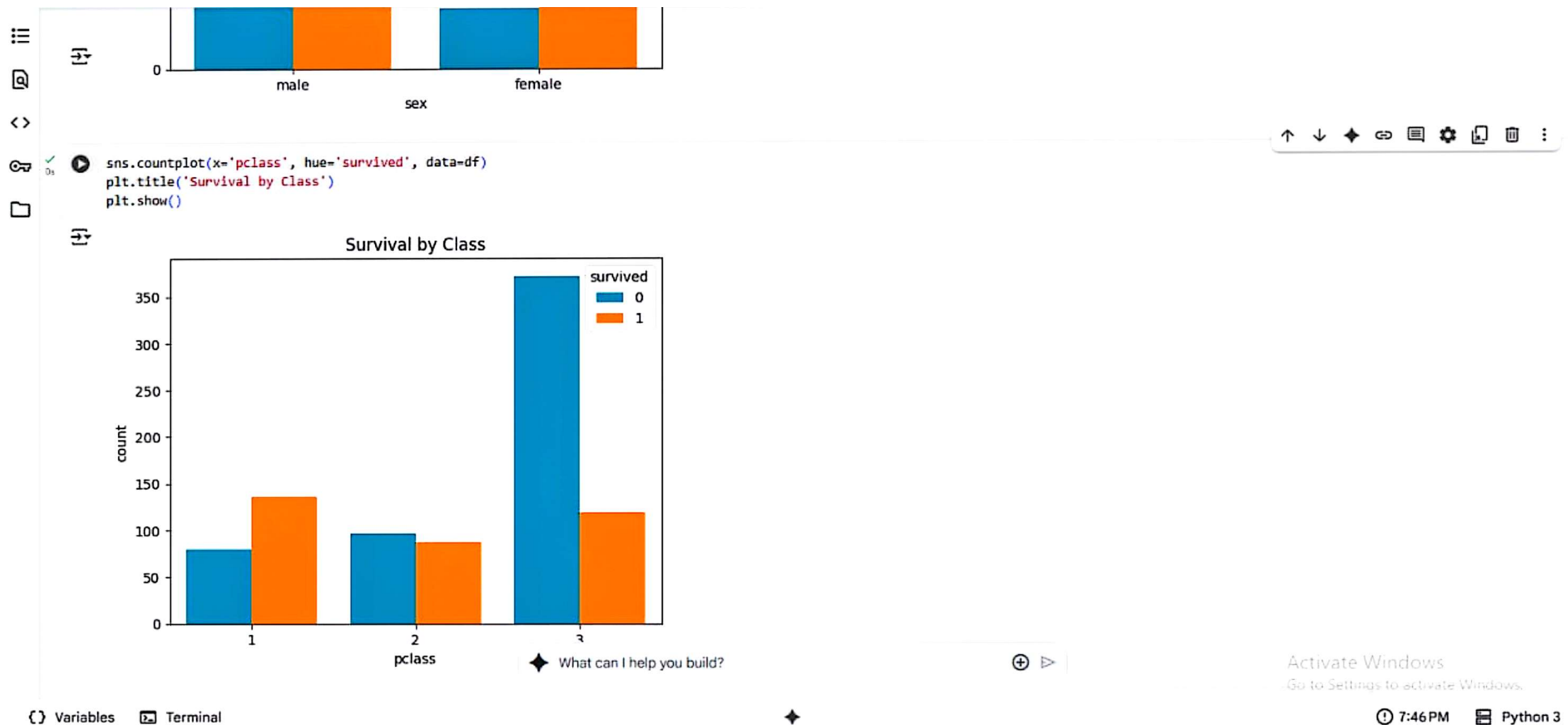
Survival by Class

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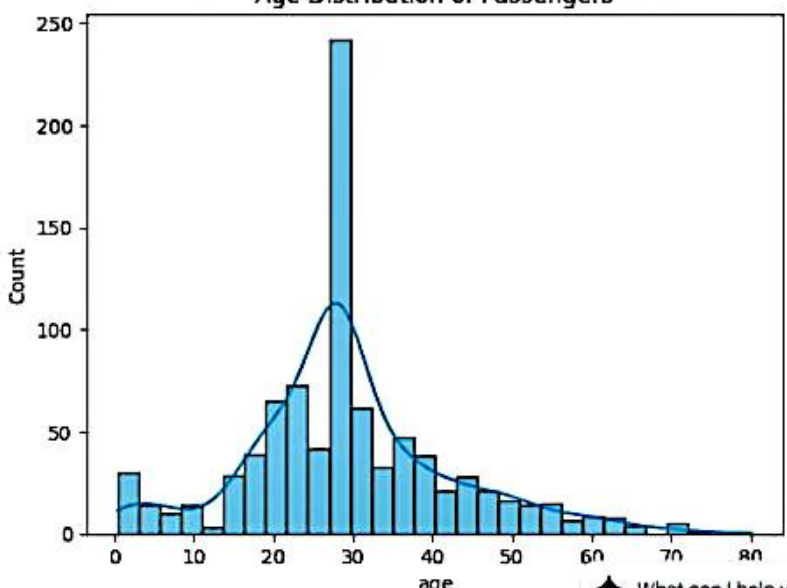
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Age Distribution of Passengers

```
sns.histplot(data=df, x='age', bins=30, kde=True)
plt.title('Age Distribution of Passengers')
plt.show()
```



Count

age

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