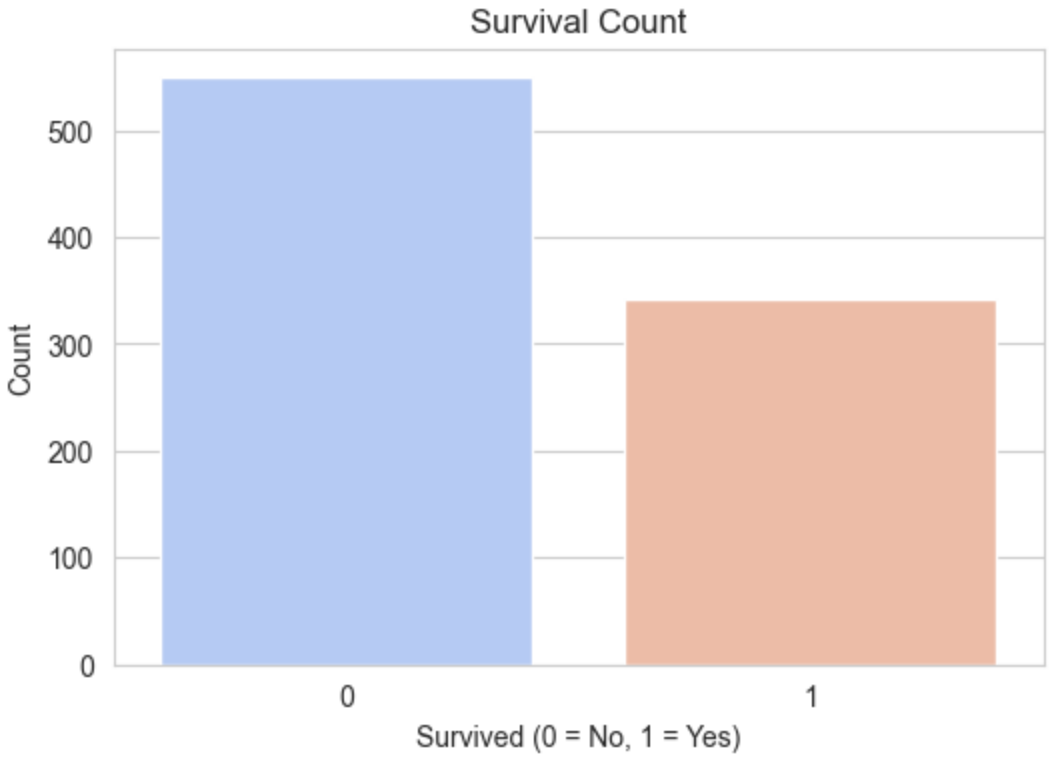
Practical No. 8

In [ ]:
```
import seaborn as sns;import matplotlib.pyplot as plt
```

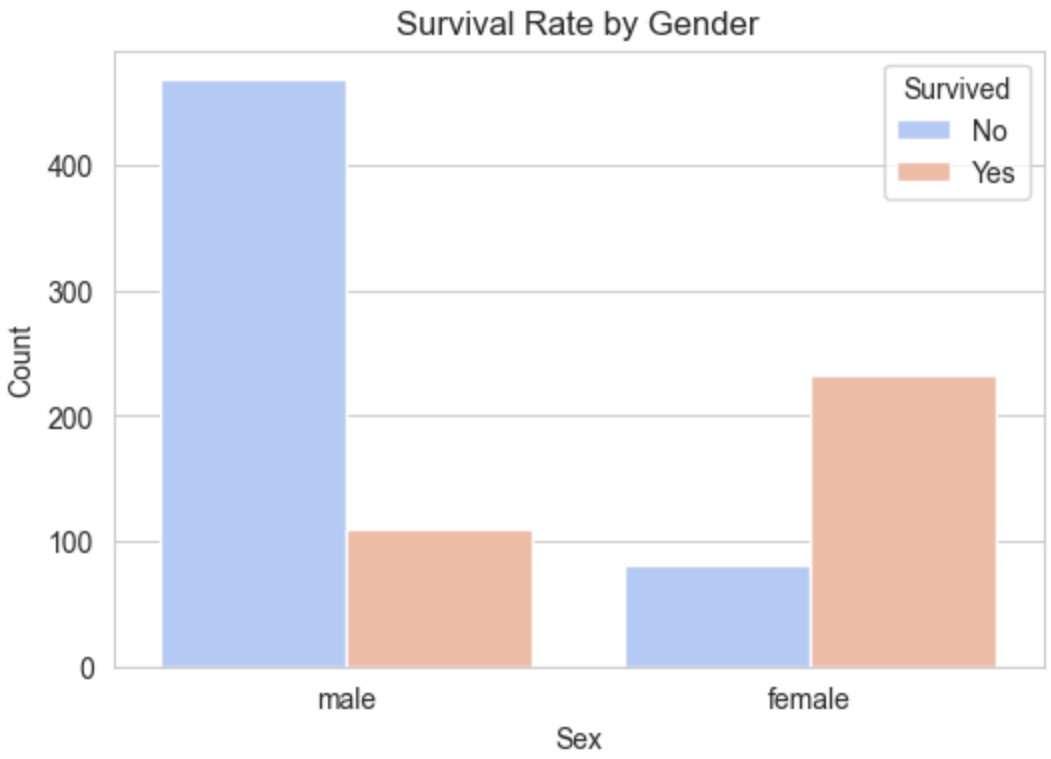
In [ ]:
```
df = sns.load_dataset('titanic');print(df.head())
```

In [ ]:
```
sns.set_style("whitegrid")
plt.figure(figsize=(6, 4))
sns.countplot(x='survived', data=df, palette='coolwarm')
plt.title('Survival Count')
plt.xlabel('Survived (0 = No, 1 = Yes)')
plt.ylabel('Count')
plt.show()
```

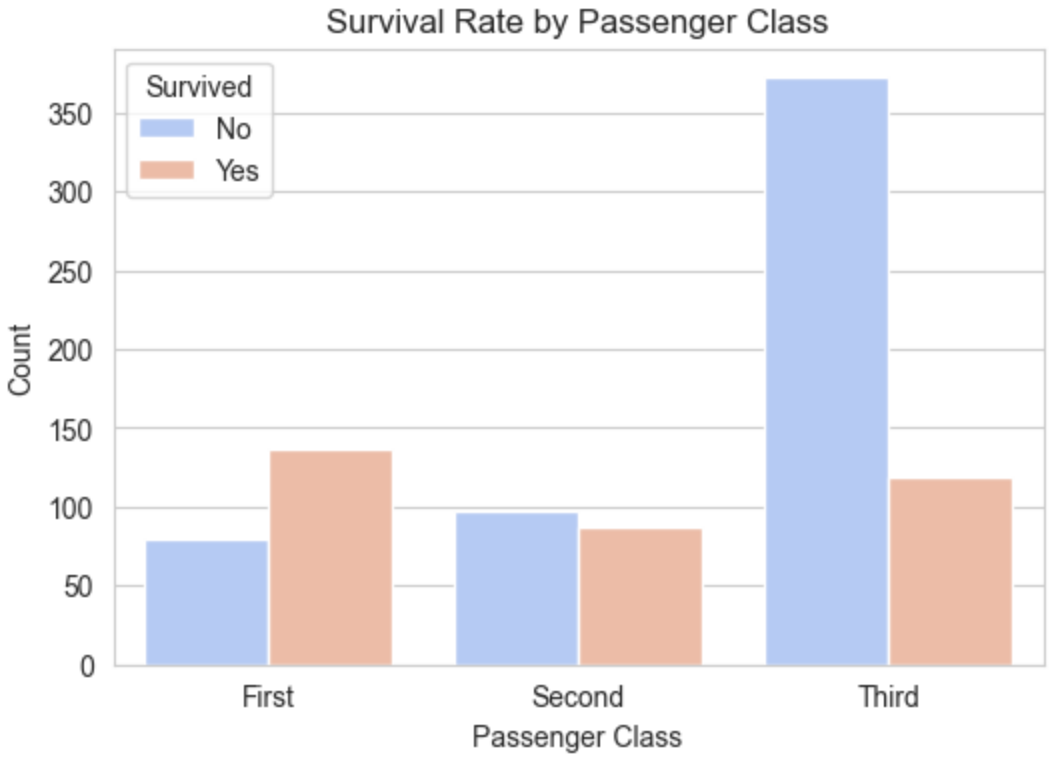
```
C:\Users\Asus\AppData\Local\Temp\ipykernel_12676\2010364350.py:4: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.1
4.0. Assign the `x` variable to `hue` and set `legend=False` for the same effect.

  sns.countplot(x='survived', data=df, palette='coolwarm')
```



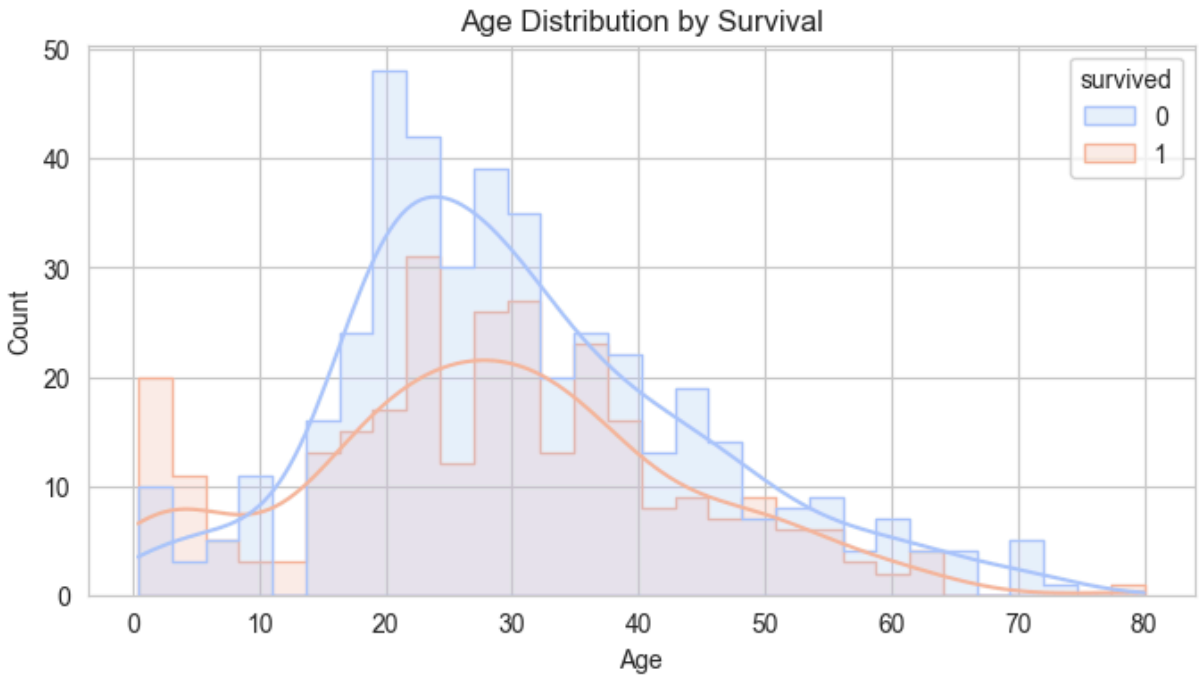
In [5]:
```
plt.figure(figsize=(6, 4))
sns.countplot(x='sex', hue='survived', data=df, palette='coolwarm')
plt.title('Survival Rate by Gender')
plt.xlabel('Sex')
plt.ylabel('Count')
plt.legend(title='Survived', labels=['No', 'Yes'])
plt.show()
```



In [6]:
```
plt.figure(figsize=(6, 4))
sns.countplot(x='class', hue='survived', data=df, palette='coolwarm')
plt.title('Survival Rate by Passenger Class')
plt.xlabel('Passenger Class')
plt.ylabel('Count')
plt.legend(title='Survived', labels=['No', 'Yes'])
plt.show()
```



In [14]:
```
plt.figure(figsize=(8, 4))
sns.histplot(df, x='age', hue='survived', element='step', kde=True, palette='coolwa
plt.title('Age Distribution by Survival')
plt.xlabel('Age')
plt.ylabel('Count')
plt.show()
```



In [15]:
```
plt.figure(figsize=(6, 3))
sns.countplot(x='embark_town', hue='survived', data=df, palette='coolwarm')
plt.title('Survival Rate by Embarkation Port')
plt.xlabel('Embarkation Port');plt.ylabel('Count');plt.legend(title='Survived', lab
```