In [13]:
```
import pandas as pd
import matplotlib.pyplot as plt
import numpy as np
import seaborn as sb
```

In [14]:
```
df = sb.load_dataset('titanic')
df.head(5)
```

Out[14]:

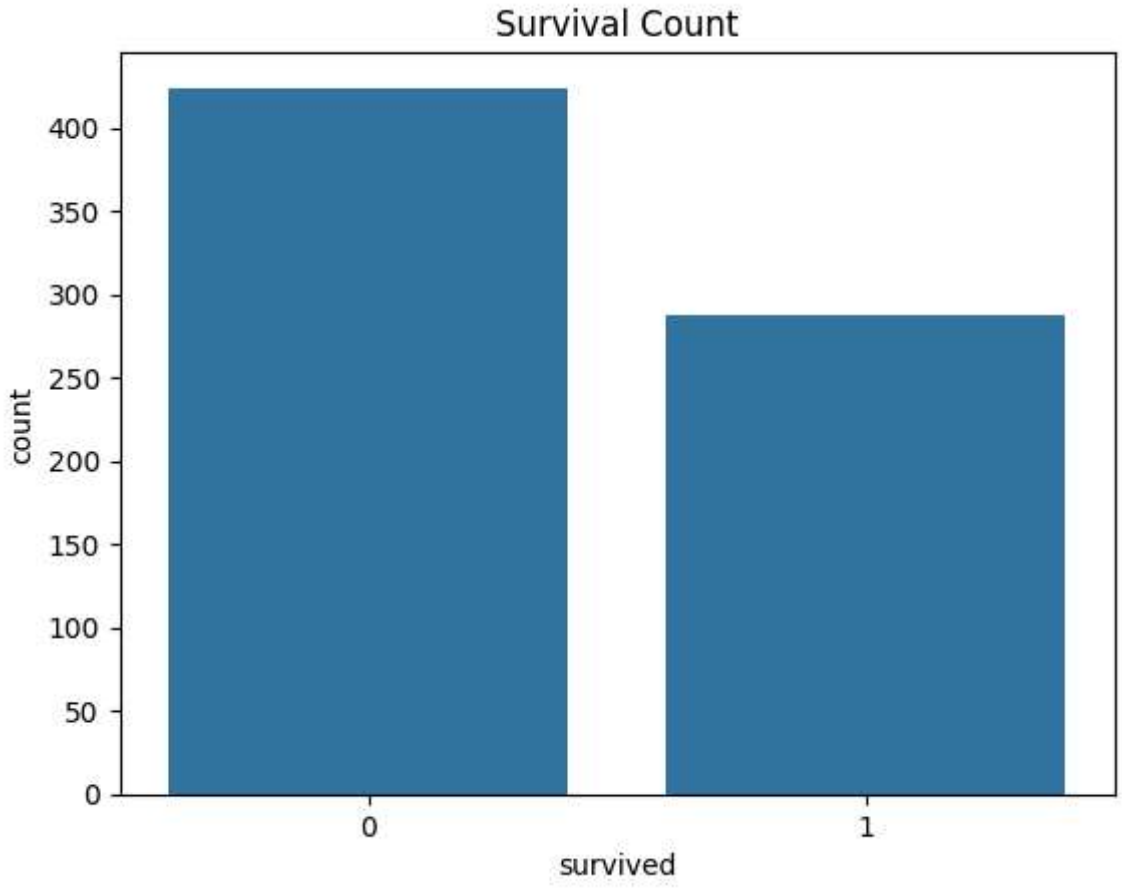
	survived	pclass	sex	age	sibsp	parch	fare	embarked	class	who	adult_m
0	0	3	male	22.0	1	0	7.2500	S	Third	man	T
1	1	1	female	38.0	1	0	71.2833	C	First	woman	Fa
2	1	3	female	26.0	0	0	7.9250	S	Third	woman	Fa
3	1	1	female	35.0	1	0	53.1000	S	First	woman	Fa
4	0	3	male	35.0	0	0	8.0500	S	Third	man	T

In [15]:
```
df.drop(columns=['deck', 'embark_town'], inplace=True)
df.dropna(inplace=True)
```

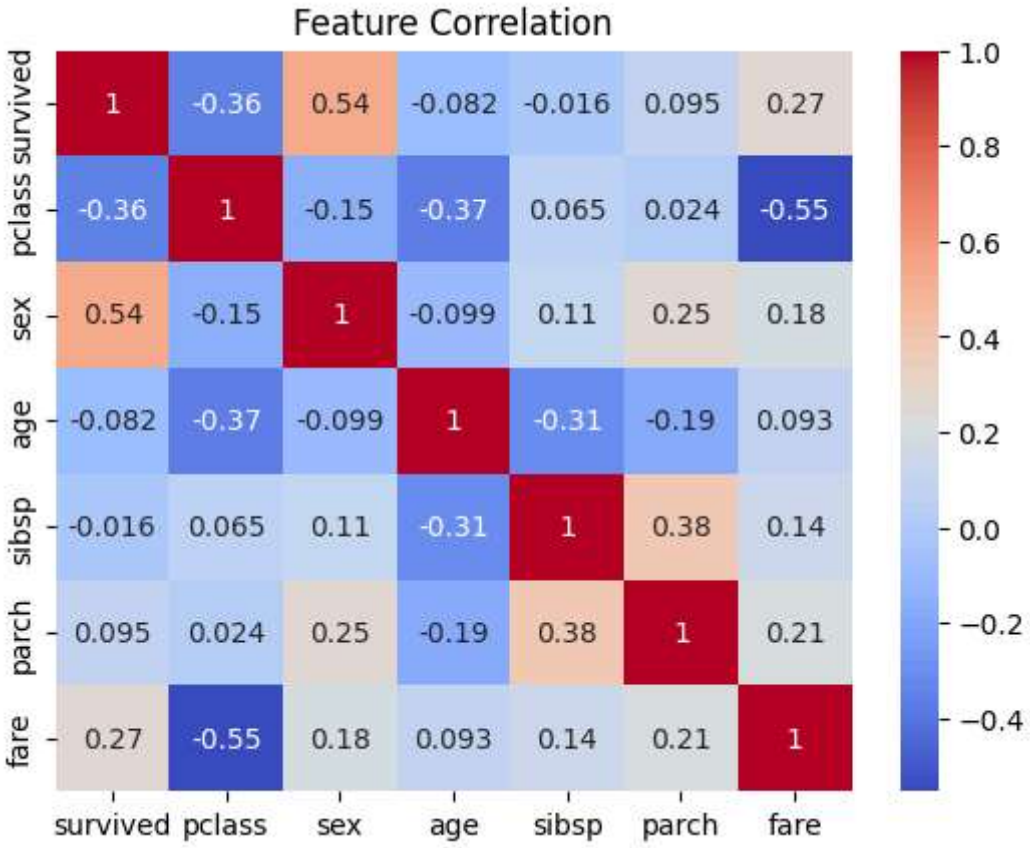
In [16]:
```
df['sex'] = df['sex'].map({'male': 0, 'female': 1})
```

In [20]:
```
df = df.drop(columns=['embarked','class','who','adult_male','alive','alone'])
```

In [21]:
```
sb.countplot(x='survived', data=df)
plt.title("Survival Count")
plt.show()
```

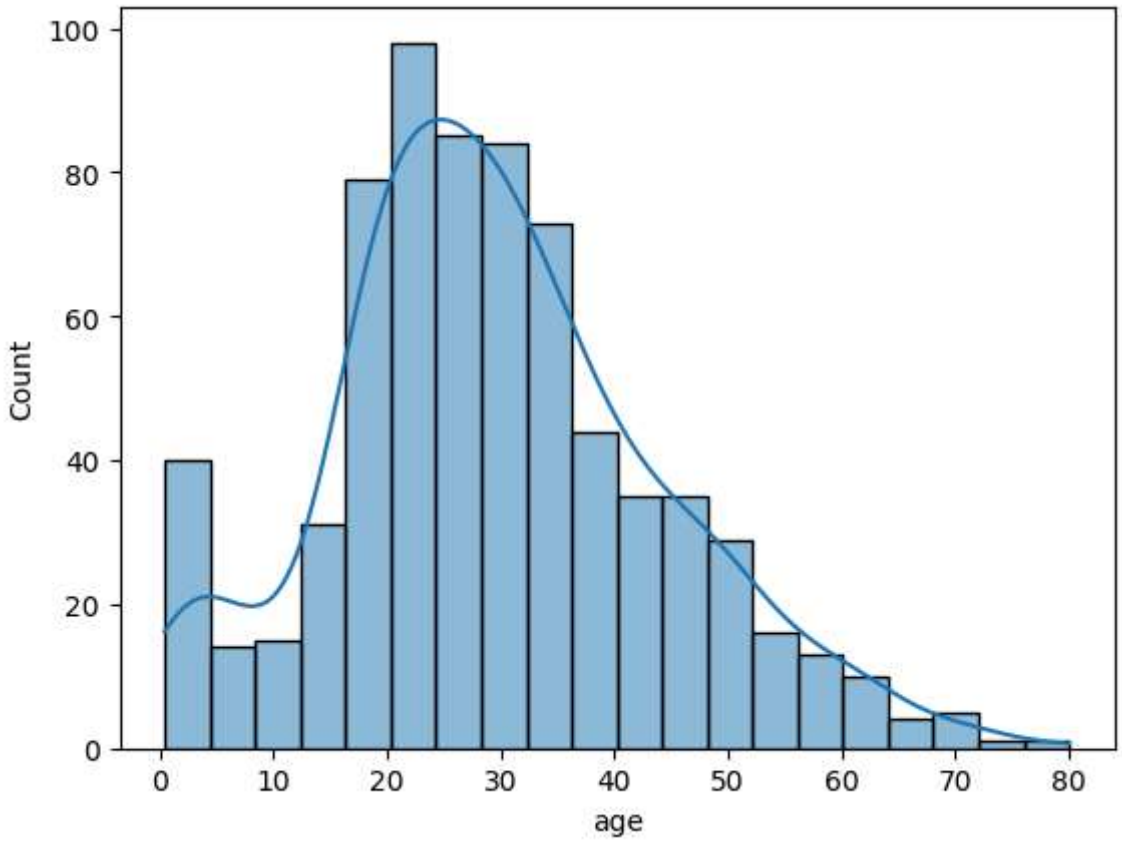


In [22]:
```
sb.heatmap(df.corr(), annot=True, cmap='coolwarm')
plt.title("Feature Correlation")
plt.show()
```



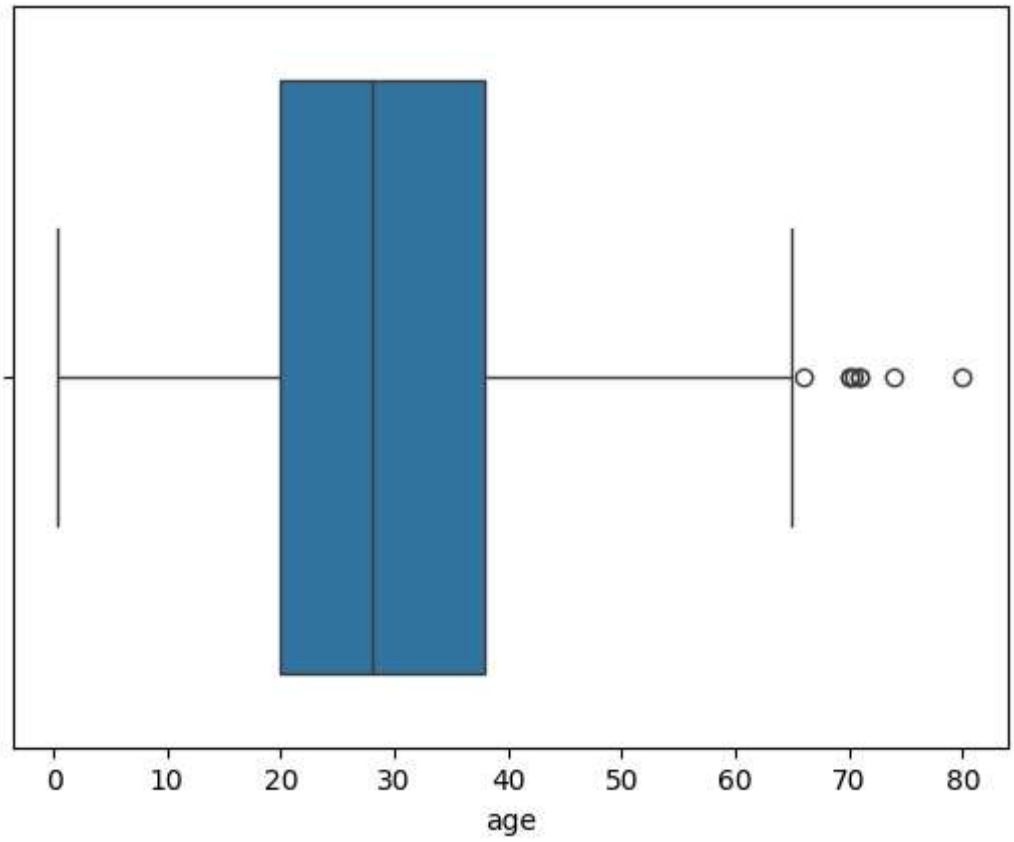
In [24]:
```
sb.histplot(df['age'], bins=20, kde=True)
```

Out[24]: <Axes: xlabel='age', ylabel='Count'>



In [25]:
```
sb.boxplot(x='age', data=df)
```

Out[25]: <Axes: xlabel='age'>



In [ ]:
```

```