In [21]:
```
import numpy as np
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
import warnings
warnings.filterwarnings(action='ignore')
```

In [23]:
```
df=pd.read_csv(r"C:\Users\Shree\Downloads\titanic (1).csv")
df
```

Out[23]:

	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	
0	1	0	3	Braund, Mr. Owen Harris	male	22.0	1	0	A/5 21171	
1	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Th...	female	38.0	1	0	PC 17599	7
2	3	1	3	Heikkinen, Miss. Laina	female	26.0	0	0	STON/O2. 3101282	
3	4	1	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35.0	1	0	113803	5
4	5	0	3	Allen, Mr. William Henry	male	35.0	0	0	373450	
...	...	...	...	...	...	...	...	...	...	
886	887	0	2	Montvila, Rev. Juozas	male	27.0	0	0	211536	1
887	888	1	1	Graham, Miss. Margaret Edith	female	19.0	0	0	112053	3
888	889	0	3	Johnston, Miss. Catherine Helen "Carrie"	female	NaN	1	2	W./C. 6607	2
889	890	1	1	Behr, Mr. Karl Howell	male	26.0	0	0	111369	3
890	891	0	3	Dooley, Mr. Patrick	male	32.0	0	0	370376	

891 rows × 12 columns

In [25]:
```
df.drop(['Cabin'],axis=1,inplace=True)
```

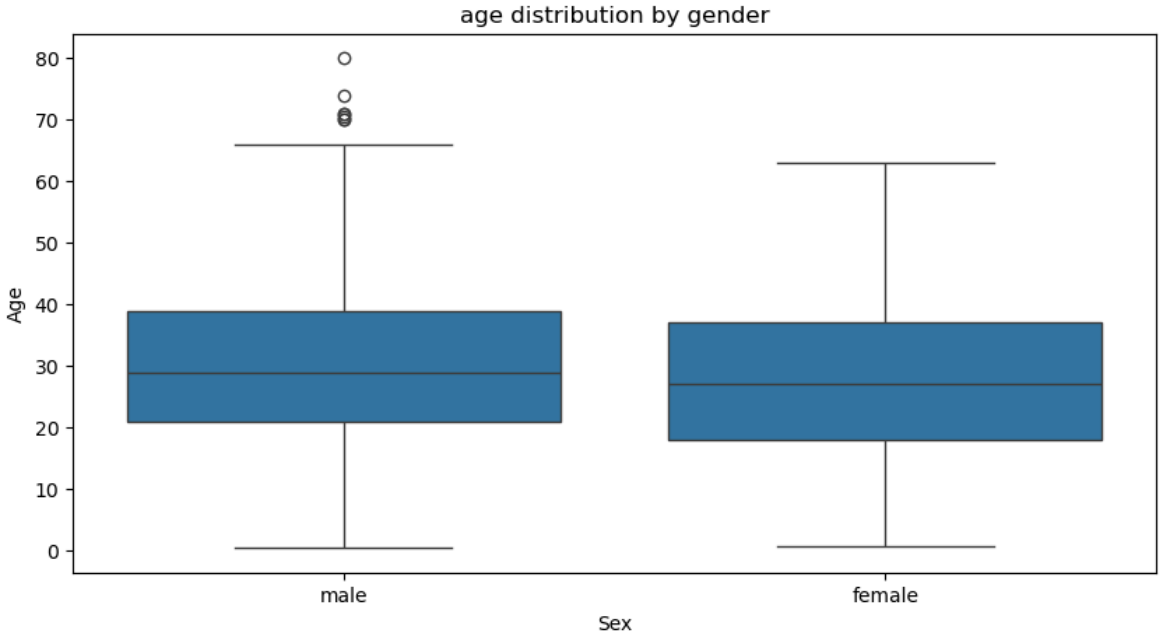
In [27]:
```
df.isnull().sum()
```

Out[27]:
```
PassengerId      0
Survived         0
Pclass           0
Name             0
Sex              0
Age            177
SibSp            0
Parch            0
Ticket           0
Fare             0
Embarked         2
dtype: int64
```

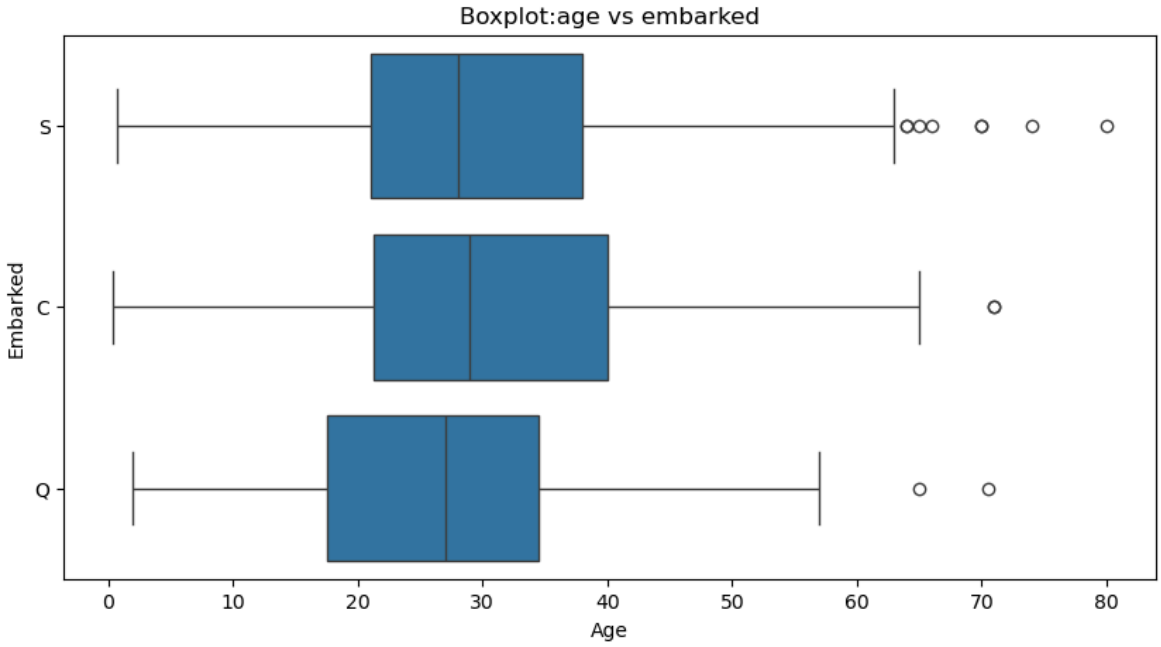
In [29]:
```
print(df.columns)
```

```
Index(['PassengerId', 'Survived', 'Pclass', 'Name', 'Sex', 'Age', 'SibSp',
       'Parch', 'Ticket', 'Fare', 'Embarked'],
      dtype='object')
```

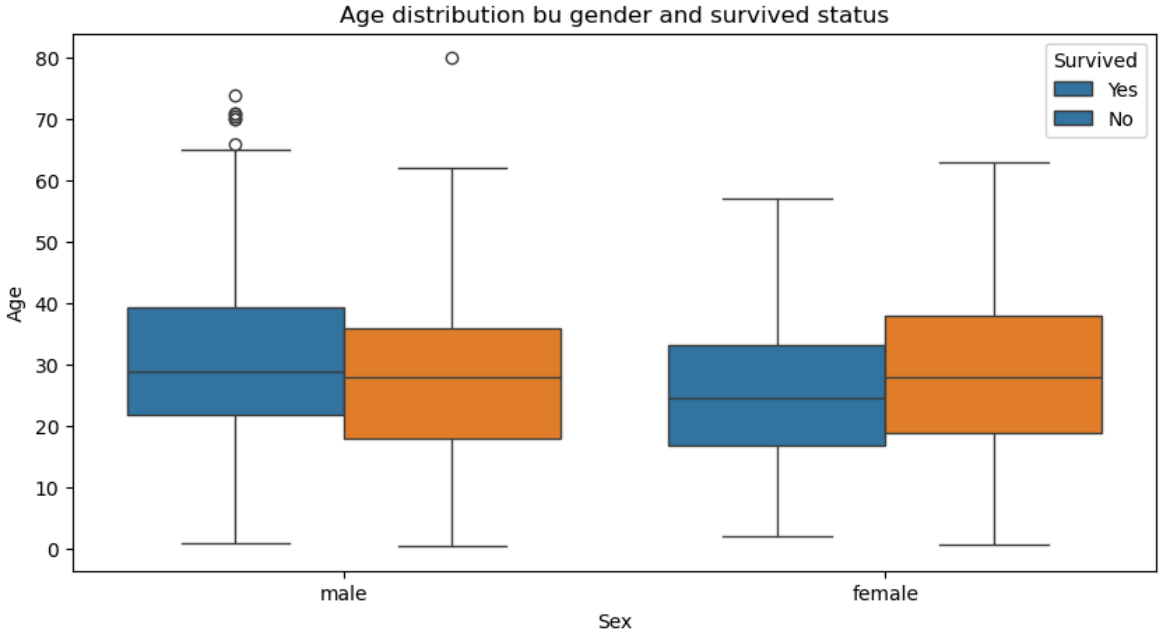
In [35]:
```
plt.figure(figsize=(10,5))
sns.boxplot(data=df,x='Sex',y='Age')
plt.title('age distribution by gender')
plt.xlabel('Sex')
plt.ylabel('Age')
plt.show()
```



In [39]:
```
plt.figure(figsize=(10,5))
sns.boxplot(data=df,x='Age',y='Embarked')
plt.title('Boxplot:age vs embarked')
plt.xlabel('Age')
plt.ylabel('Embarked')
plt.show()
```



In [53]:
```
plt.figure(figsize=(10,5))
sns.boxplot(data=df,x='Sex',hue='Survived',y='Age')
plt.title('Age distribution bu gender and survived status')
plt.xlabel('Sex')
plt.ylabel('Age')
plt.legend(title='Survived',labels=['Yes','No'])
plt.show()
```



In [ ]:
```
```