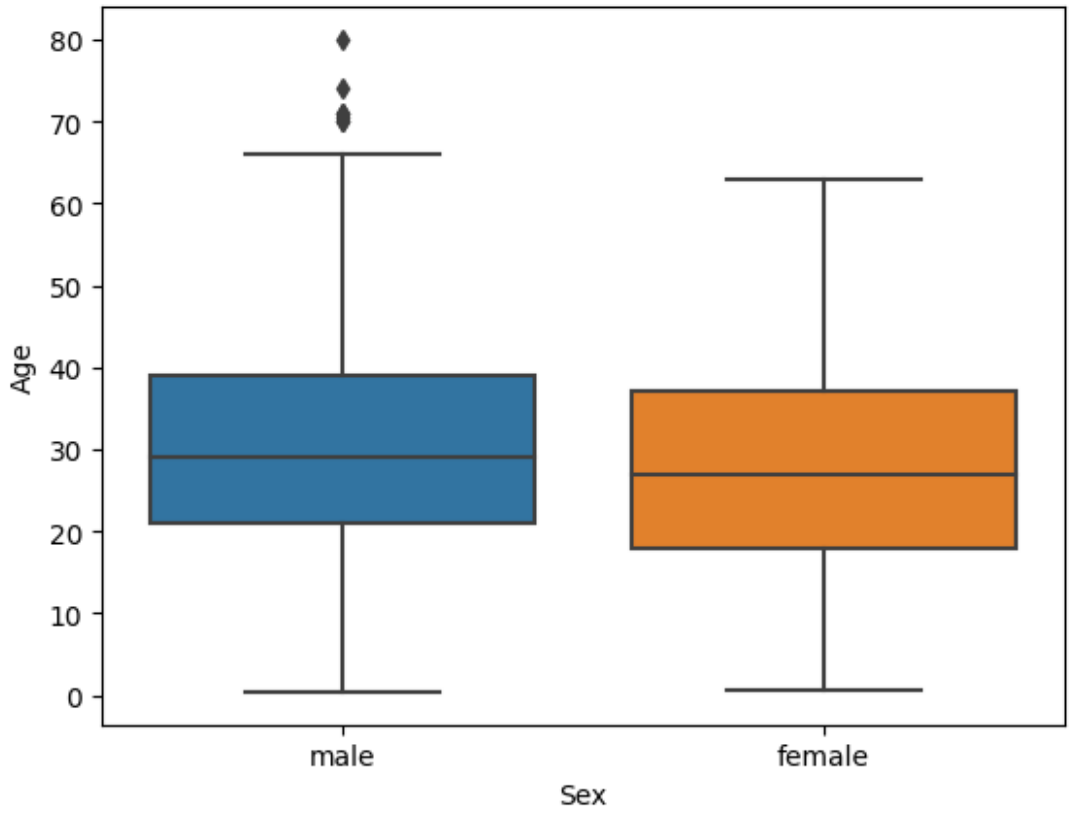
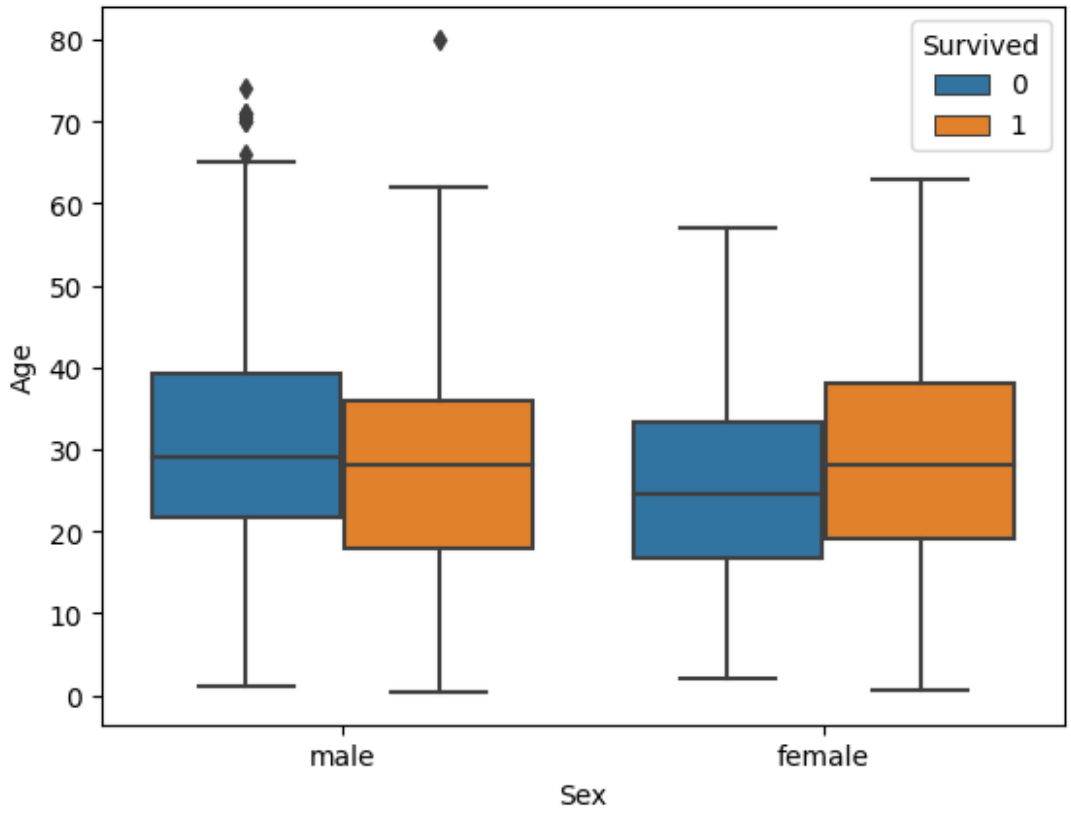
```
#Assignment 9

import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
from seaborn import load_dataset

data = pd.read_csv('titanic_train.csv')

tips = load_dataset("tips")

sns.boxplot(x=data['Sex'], y=data['Age'])
plt.show()
```




```
sns.boxplot(x='Sex', y='Age', hue='Survived', data=data)
plt.show()
```



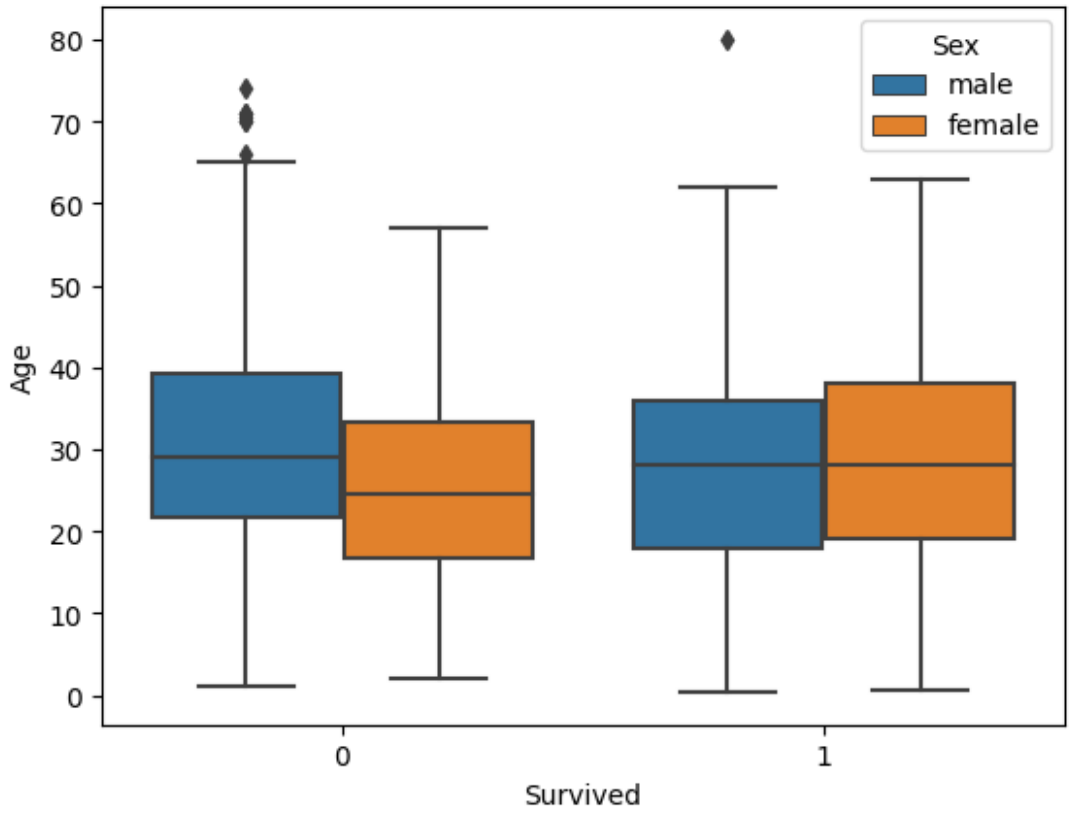

```
data
```

	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp
0	1	0	3	Braund, Mr. Owen Harris	male	22.0	1
1	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Th...	female	38.0	1
2	3	1	3	Heikkinen, Miss. Laina	female	26.0	0
3	4	1	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35.0	
4	5	0	3				
..	...	...	...				
886	887	0	2				
887	888	1	1				
888	889	0	3				
889	890	1	1				
890	891	0	3				

```
1
4                              Allen, Mr. William Henry    male  35.0
0
..                                                  ...     ...   ...
...
886                               Montvila, Rev. Juozas    male  27.0
0
887                        Graham, Miss. Margaret Edith  female  19.0
0
888            Johnston, Miss. Catherine Helen "Carrie"  female   NaN
1
889                               Behr, Mr. Karl Howell    male  26.0
0
890                                 Dooley, Mr. Patrick    male  32.0
0

     Parch            Ticket     Fare Cabin Embarked
0        0         A/5 21171   7.2500   NaN        S
1        0          PC 17599  71.2833   C85        C
2        0  STON/O2. 3101282   7.9250   NaN        S
3        0            113803  53.1000  C123        S
4        0            373450   8.0500   NaN        S
..     ...               ...      ...   ...      ...
886      0            211536  13.0000   NaN        S
887      0            112053  30.0000   B42        S
888      2        W./C. 6607  23.4500   NaN        S
889      0            111369  30.0000  C148        C
890      0            370376   7.7500   NaN        Q

[891 rows x 12 columns]
```

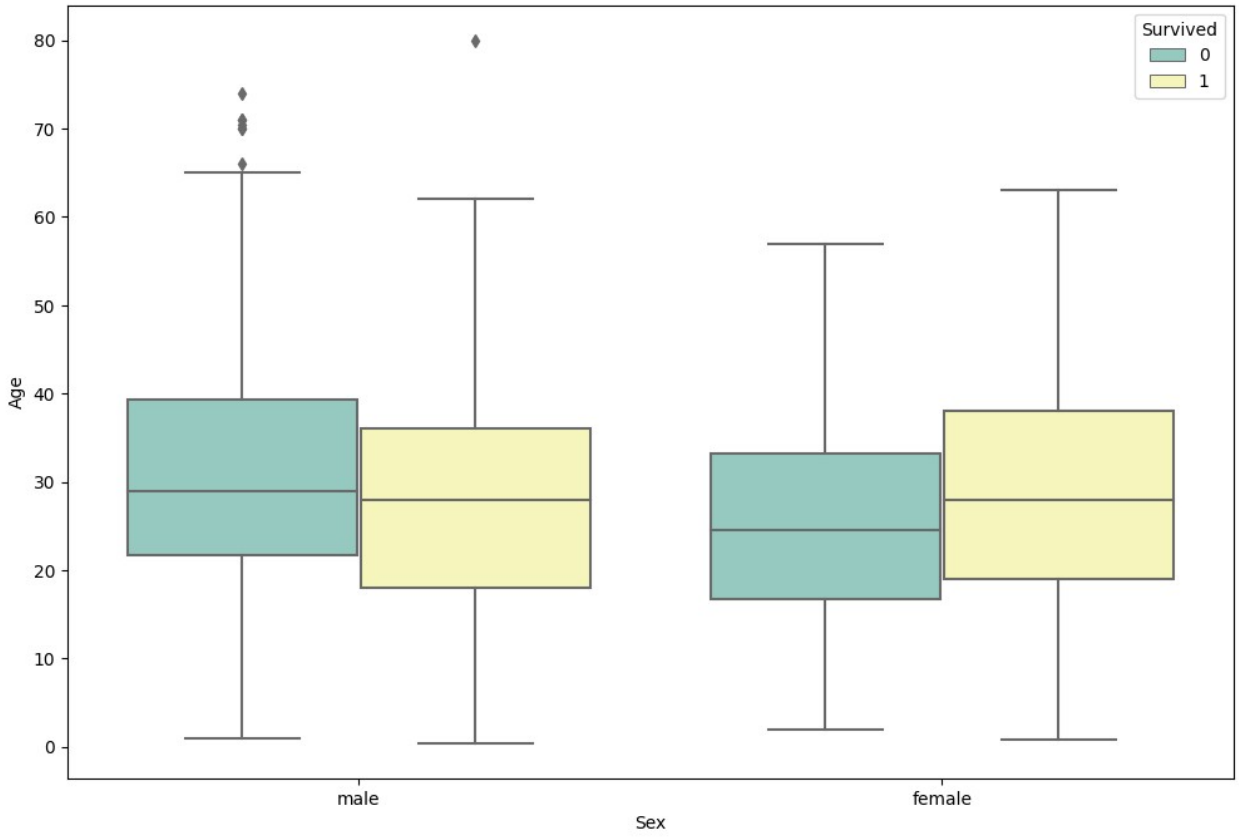
```
sns.boxplot(x = 'Survived', y = 'Age', hue = 'Sex', data = data)
```

```
<Axes: xlabel='Survived', ylabel='Age'>
```



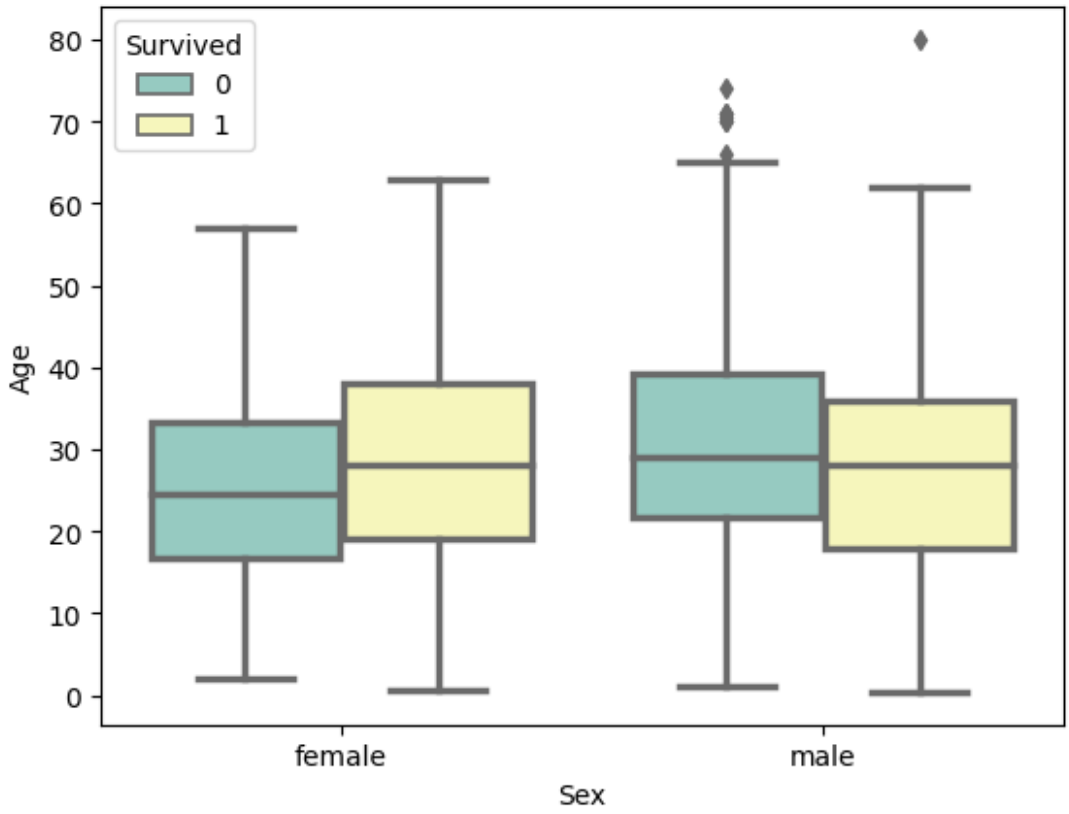

```
plt.figure(figsize = (12, 8))
sns.boxplot(x = 'Sex', y = 'Age', hue = 'Survived', palette = 'Set3',
data = data)
```

```
<Axes: xlabel='Sex', ylabel='Age'>
```




```
sns.boxplot(x = 'Sex', y = 'Age', hue = 'Survived', palette = 'Set3',
data = data, linewidth = 2.5, order = ['female', 'male'])
```

```
<Axes: xlabel='Sex', ylabel='Age'>
```


Survived
0
1
80
70
60
50
40
30
20
10
0
Age
female
male
Sex