

```
In [2]: import pandas as pd
import numpy as np
import seaborn as sns
import matplotlib.pyplot as plt
```

```
In [3]: df = pd.read_csv("Titanic-Dataset.csv")
```

```
In [4]: df.head()
```

```
Out[4]:
```

	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked
0	1	0	3	Braund, Mr. Owen Harris	male	22.0	1	0	A/5 21171	7.2500	NaN	S
1	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Th...	female	38.0	1	0	PC 17599	71.2833	C85	C
2	3	1	3	Heikkinen, Miss. Laina	female	26.0	0	0	STON/O2. 3101282	7.9250	NaN	S
3	4	1	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35.0	1	0	113803	53.1000	C123	S
4	5	0	3	Allen, Mr. William Henry	male	35.0	0	0	373450	8.0500	NaN	S

```
In [5]: df.isnull().sum()
```

```
Out[5]: PassengerId    0
Survived              0
Pclass               0
Name                 0
Sex                  0
Age                177
SibSp                0
Parch                0
Ticket              0
Fare                 0
Cabin              687
Embarked             2
dtype: int64
```

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In [6]: age_mean = df['Age'].mean()
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In [8]: df['Age'].fillna(value=age_mean , inplace = True)
```

```
In [9]: df.isnull().sum()
```

```
Out[9]: PassengerId    0
Survived              0
Pclass               0
Name                 0
Sex                  0
Age                 0
SibSp                0
Parch                0
Ticket              0
Fare                 0
Cabin              687
Embarked             2
dtype: int64
```

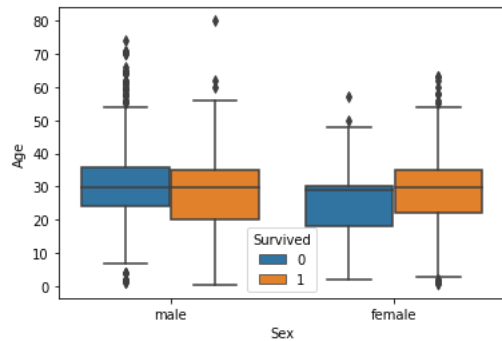
```
In [10]: df2 = df.drop("Cabin",axis=1)
```

```
In [11]: df2.isnull().sum()
```

```
Out[11]: PassengerId    0
Survived              0
Pclass               0
Name                 0
Sex                  0
Age                 0
SibSp                0
Parch                0
Ticket              0
Fare                 0
Embarked             2
dtype: int64
```

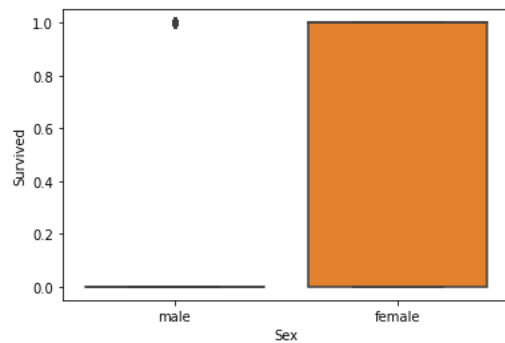
```
In [12]: sns.boxplot(data = df2, x="Sex", y="Age", hue="Survived")
```

```
Out[12]: <AxesSubplot:xlabel='Sex', ylabel='Age'>
```



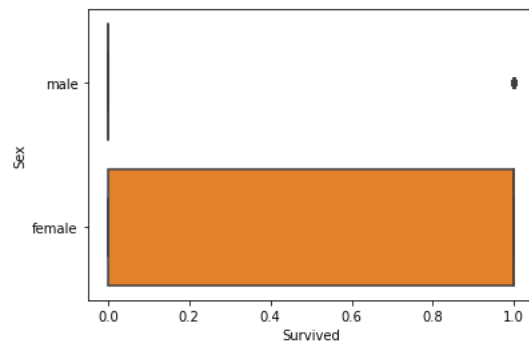
```
In [13]: sns.boxplot(data =df2,x="Sex",y="Survived")
```

```
Out[13]: <AxesSubplot:xlabel='Sex', ylabel='Survived'>
```



```
In [14]: sns.boxplot(data =df2 , x="Survived", y="Sex")
```

```
Out[14]: <AxesSubplot:xlabel='Survived', ylabel='Sex'>
```



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In [ ]:
```