

Task 3 -- Visualization using Histogram

```
In [1]: import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
```

```
In [2]: train=pd.read_csv("train.csv")
test=pd.read_csv("test.csv")
```

```
In [3]: test.head()
```

Out[3]:

	PassengerId	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked
0	892	3	Kelly, Mr. James	male	34.5	0	0	330911	7.8292	NaN	
1	893	3	Wilkes, Mrs. James (Ellen Needs)	female	47.0	1	0	363272	7.0000	NaN	
2	894	2	Myles, Mr. Thomas Francis	male	62.0	0	0	240276	9.6875	NaN	
3	895	3	Wirz, Mr. Albert	male	27.0	0	0	315154	8.6625	NaN	
4	896	3	Hirvonen, Mrs. Alexander (Helga E Lindqvist)	female	22.0	1	1	3101298	12.2875	NaN	



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

Out [4]:

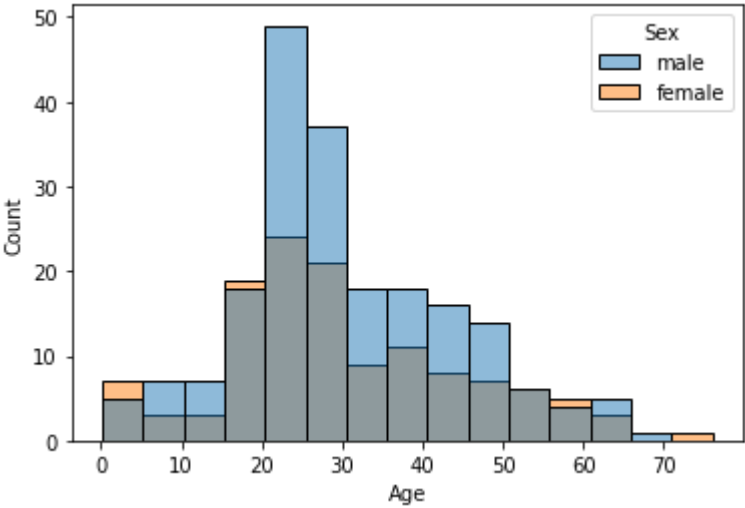
	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare
0	1	0	3	Braund, Mr. Owen Harris	male	22.0	1	0	A/5 21171	7.2500
1	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Th...	female	38.0	1	0	PC 17599	71.2833
2	3	1	3	Heikkinen, Miss. Laina	female	26.0	0	0	STON/O2. 3101282	7.9250
3	4	1	1	Futrelle,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

In [6]:

```
sns.histplot(data=test,x='Age',hue='Sex')  
  
# from avove chat we can see that from age between 20 to 30, male pasenger a
```

Out[6]:

<AxesSubplot:xlabel='Age', ylabel='Count'>

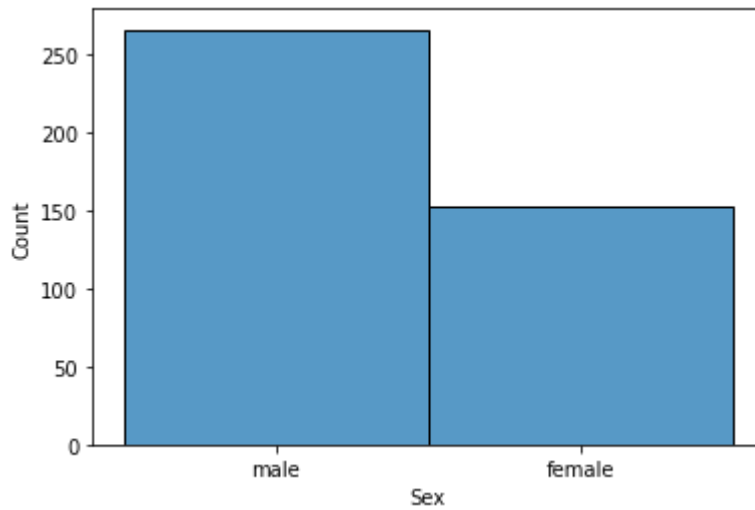


In [7]:

```
sns.histplot(data=test,x='Sex')  
  
# from avove chat we can see that male passenger is more in the train and te
```

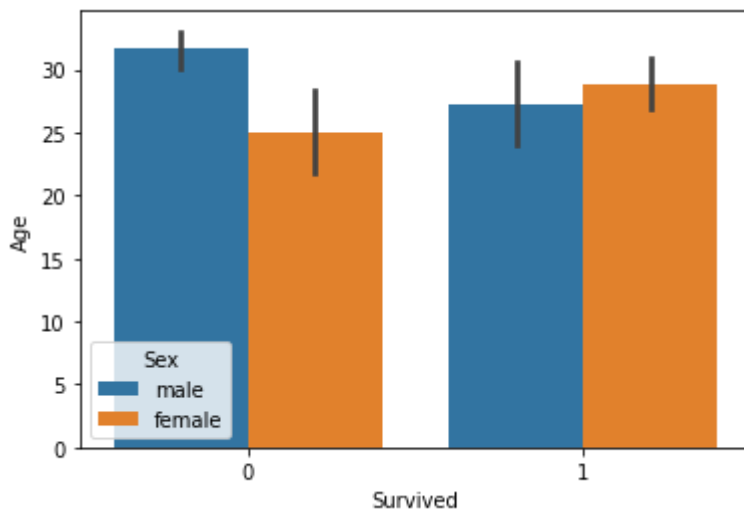
Out[7]:

<AxesSubplot:xlabel='Sex', ylabel='Count'>



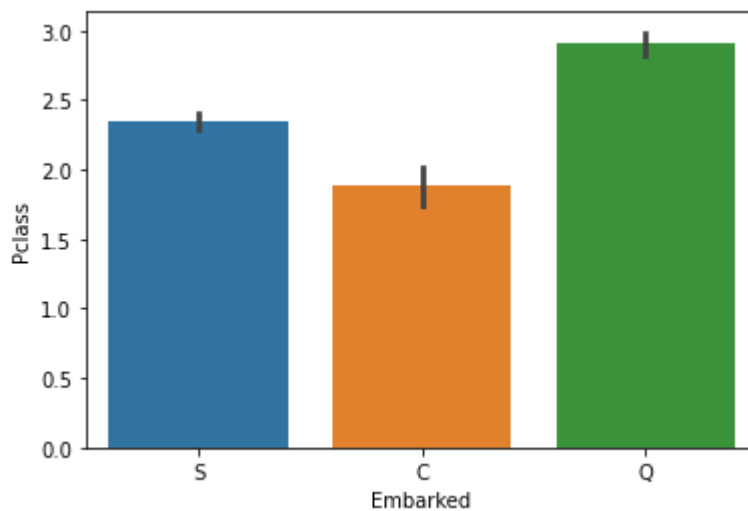
```
In [18]: sns.barplot(data=train,x='Survived',y='Age',hue='Sex')
```

```
Out[18]: <AxesSubplot:xlabel='Survived', ylabel='Age'>
```



```
In [30]: sns.barplot(data=train,x='Embarked',y='Pclass')
```

```
Out[30]: <AxesSubplot:xlabel='Embarked', ylabel='Pclass'>
```



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In [ ]:
```