In [1]:
```
import pandas as pd
import numpy as np
import seaborn as sns
```

In [2]:
```
import matplotlib.pyplot as plt
```

In [21]:
```
fd=pd.read_csv("Titanic")
fd
```

Out[21]:

	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
...	...	...	...	...	...	...	...	...	...	...
886	887	0	2	Montvila, Rev. Juozas	male	27.0	0	0	211536	13.0000
887	888	1	1	Graham, Miss. Margaret Edith	female	19.0	0	0	112053	30.0000
888	889	0	3	Johnston, Miss. Catherine Helen "Carrie"	female	NaN	1	2	W./C. 6607	23.4500
889	890	1	1	Behr, Mr. Karl Howell	male	26.0	0	0	111369	30.0000
890	891	0	3	Dooley, Mr. Patrick	male	32.0	0	0	370376	7.7500

891 rows × 12 columns

In [22]:
```
##top  5 fields
fd.head()
```

Out[22]:

	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Ca
0	1	0	3	Braund, Mr. Owen Harris	male	22.0	1	0	A/5 21171	7.2500	N
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	N
3	4	1	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35.0	1	0	113803	53.1000	C
4	5	0	3	Allen, Mr. William Henry	male	35.0	0	0	373450	8.0500	N

In [5]:
```
##Getting the particular record
fd.drop(["PassengerId","Name","Ticket"],axis=1,inplace=True)
```

In [ ]:
```

```

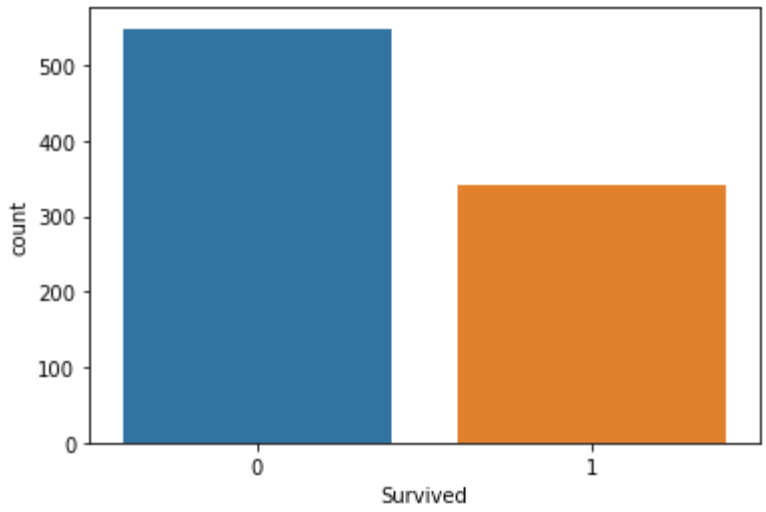
In [6]:
```
fd.head()
```

Out[6]:

	Survived	Pclass	Sex	Age	SibSp	Parch	Fare	Cabin	Embarked
0	0	3	male	22.0	1	0	7.2500	NaN	S
1	1	1	female	38.0	1	0	71.2833	C85	C
2	1	3	female	26.0	0	0	7.9250	NaN	S
3	1	1	female	35.0	1	0	53.1000	C123	S
4	0	3	male	35.0	0	0	8.0500	NaN	S

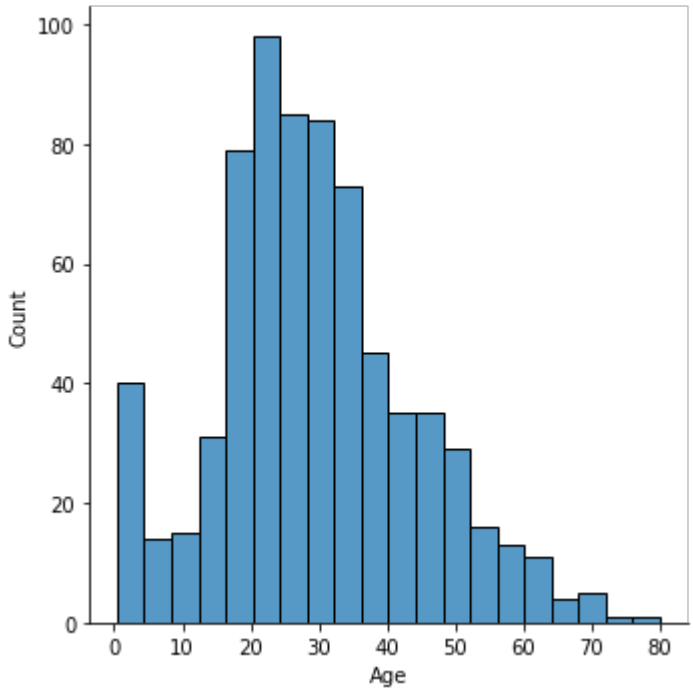
In [7]:
```
##countplot
sns.countplot(x="Survived",data=fd)
fd["Survived"].value_counts()
fd["Sex"].value_counts()
```

Out[7]:
```
male      577
female    314
Name: Sex, dtype: int64
```



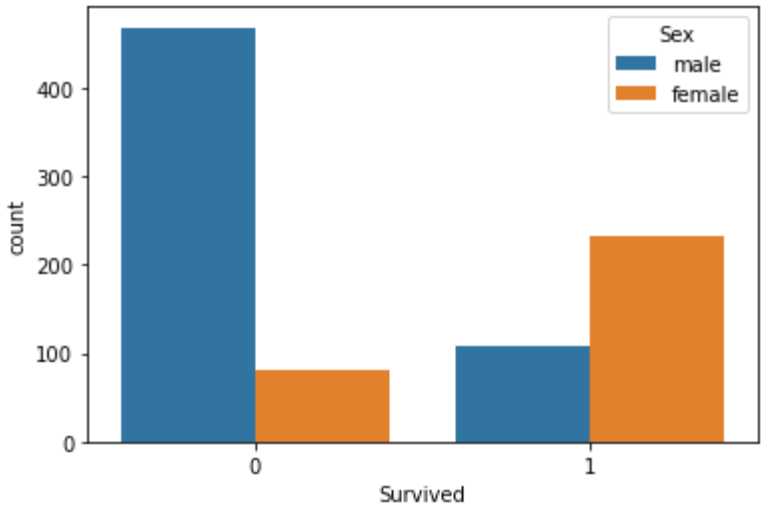
In [8]:
```
## Displot
sns.displot(fd.Age)
```

Out[8]:
```
<seaborn.axisgrid.FacetGrid at 0x1edf8b3feb0>
```



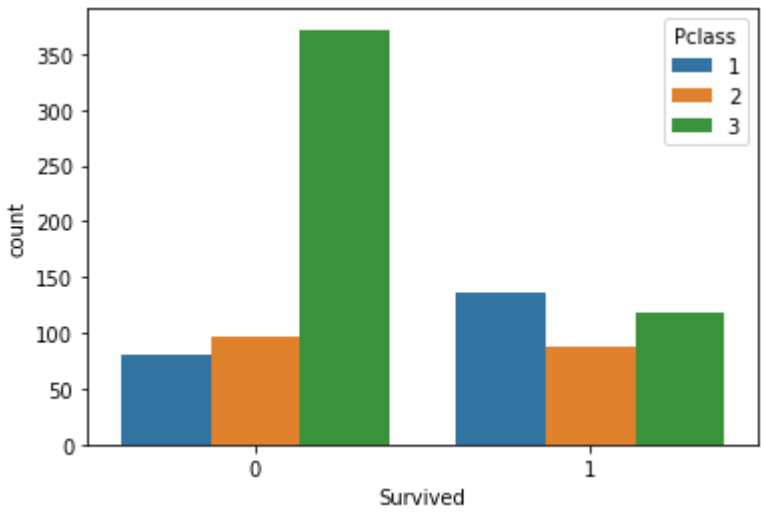
In [9]:
```
##count plot by parameters
sns.countplot(x="Survived",hue="Sex",data=fd)
```

Out[9]: <AxesSubplot:xlabel='Survived', ylabel='count'>



In [10]:
```
##count plot by parameters
sns.countplot(x="Survived",hue="Pclass",data=fd)
```

Out[10]: <AxesSubplot:xlabel='Survived', ylabel='count'>



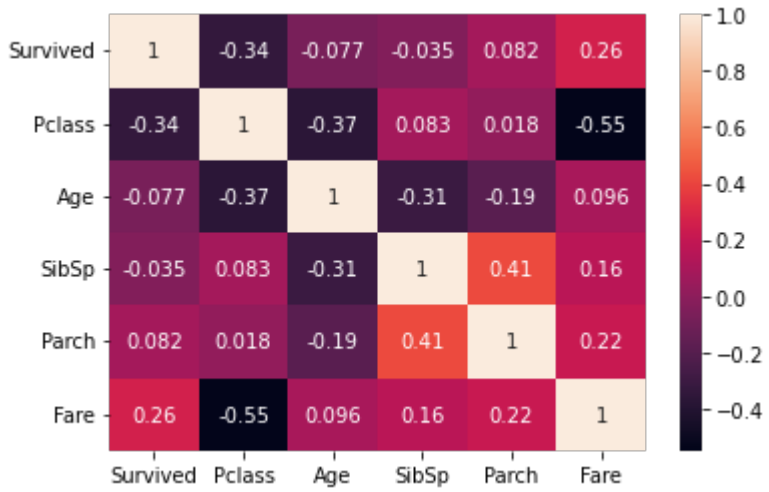
In [11]:
```
## find the correlation
correlation=fd.corr()
correlation
```

Out[11]:

	Survived	Pclass	Age	SibSp	Parch	Fare
Survived	1.000000	-0.338481	-0.077221	-0.035322	0.081629	0.257307
Pclass	-0.338481	1.000000	-0.369226	0.083081	0.018443	-0.549500
Age	-0.077221	-0.369226	1.000000	-0.308247	-0.189119	0.096067
SibSp	-0.035322	0.083081	-0.308247	1.000000	0.414838	0.159651
Parch	0.081629	0.018443	-0.189119	0.414838	1.000000	0.216225
Fare	0.257307	-0.549500	0.096067	0.159651	0.216225	1.000000

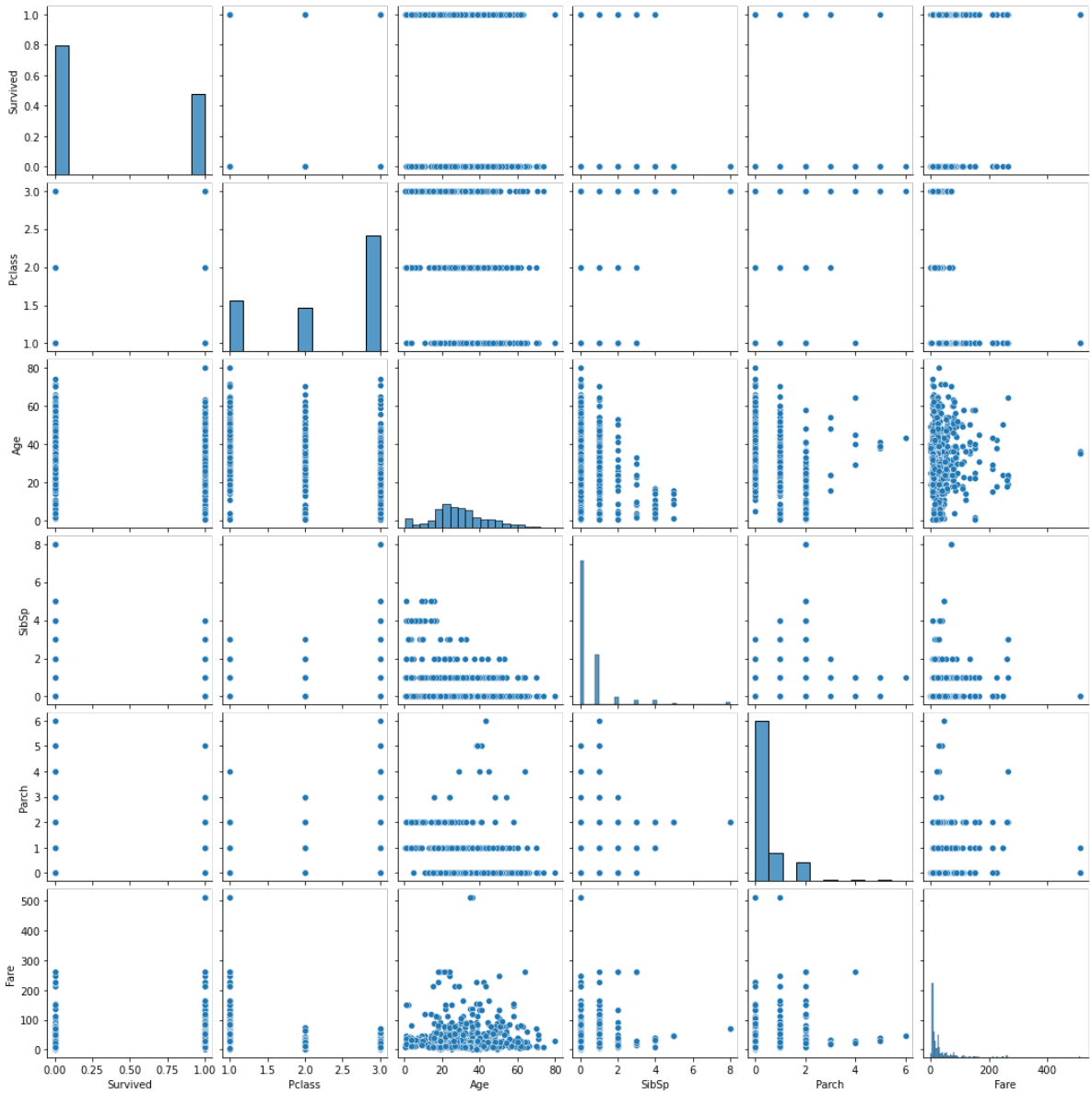
In [62]:
```
## heatmap
sns.heatmap(correlation,annot=True)
```

Out[62]: <AxesSubplot:>



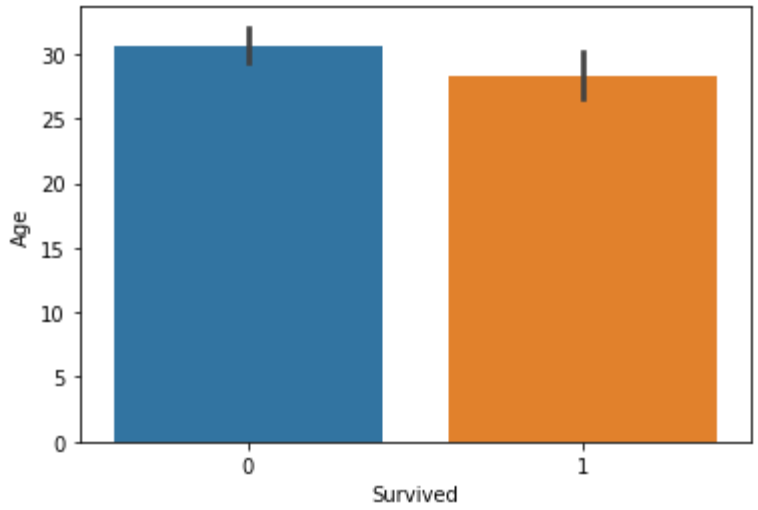
In [12]:
```
## pairplot
sns.pairplot(fd)
```

Out[12]:
```
<seaborn.axisgrid.PairGrid at 0x1edf8c753a0>
```



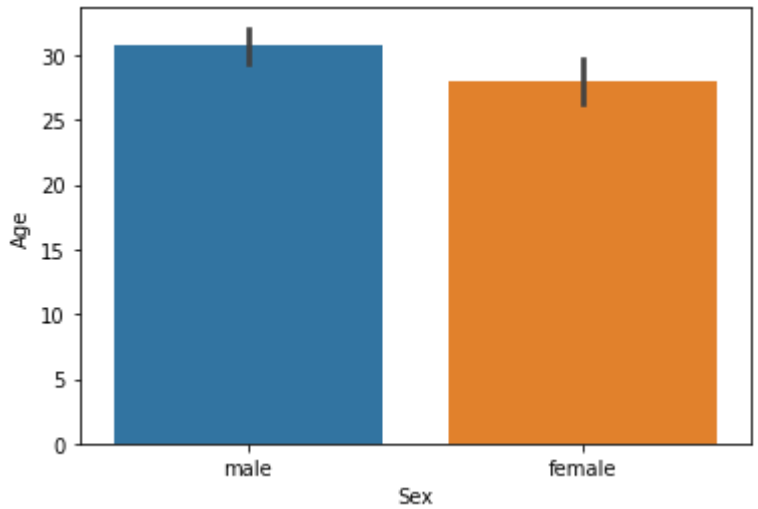
In [13]:
```
##Barplot
sns.barplot(x="Survived",y="Age",data=fd)
```

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



In [69]:
```
sns.barplot(x="Sex",y="Age",data=fd)
```

Out[69]: <AxesSubplot:xlabel='Sex', ylabel='Age'>



In [14]:
```
##Facetgrid
f=sns.FacetGrid(fd,col="Survived")
f.map(plt.hist,"Age")
```

Out[14]:
```
<seaborn.axisgrid.FacetGrid at 0x1edfb1440a0>
```