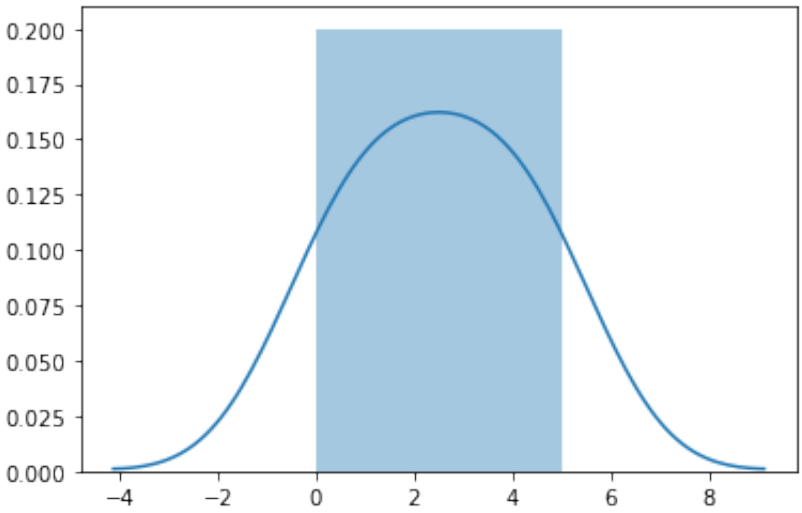
In [1]:

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

In [2]:

```
# distplot

arr = np.array([0,1,2,3,4,5])
sns.distplot(arr)
plt.show()
```



In [4]:

```
df = pd.read_csv("titanic_train.csv")
df.head()
```

Out[4]:

	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Far
0	1	0	3	Braund, Mr. Owen Harris	male	22.0	1	0	A/5 21171	7.250
1	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Th...	female	38.0	1	0	PC 17599	71.283
2	3	1	3	Heikkinen, Miss. Laina	female	26.0	0	0	STON/O2. 3101282	7.925
3	4	1	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35.0	1	0	113803	53.100
4	5	0	3	Allen, Mr. William Henry	male	35.0	0	0	373450	8.050

In [ ]:

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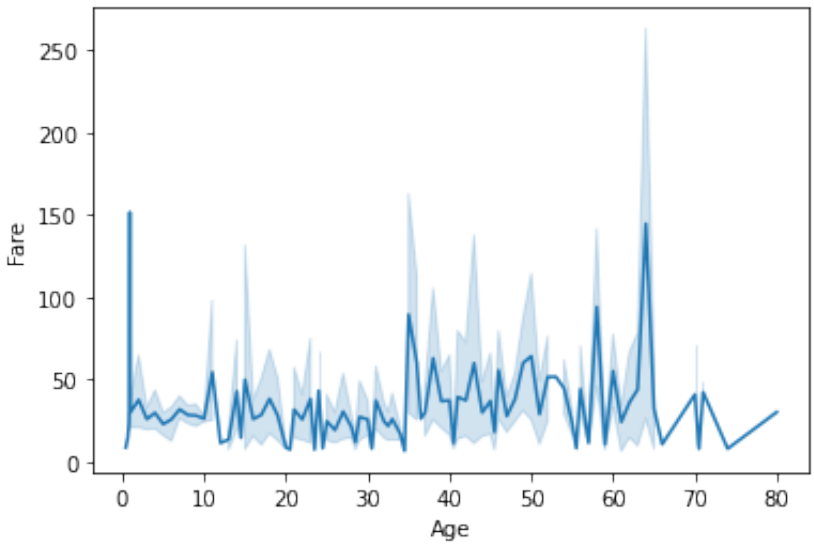
In [6]:

```
# line plot

sns.lineplot(x = 'Age', y = "Fare",data = df)
plt.show()
```

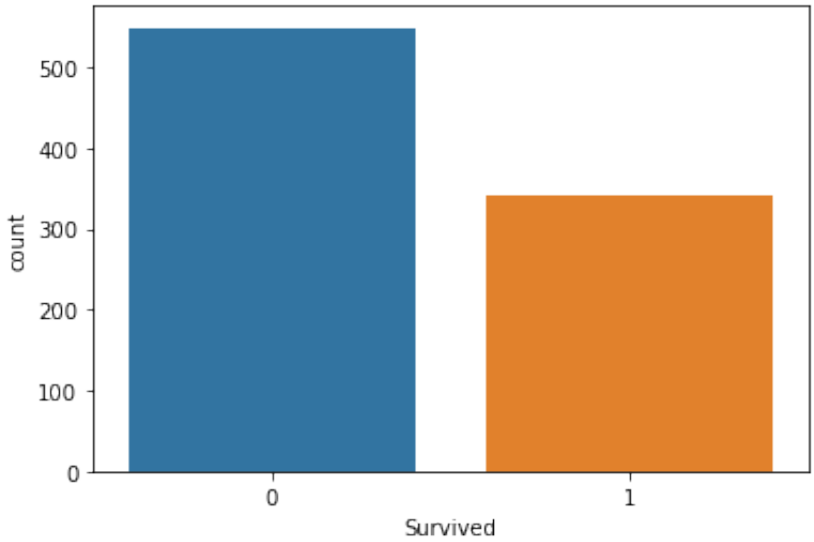


In [15]:

```
# countplot

sns.countplot("Survived", data = df)
```

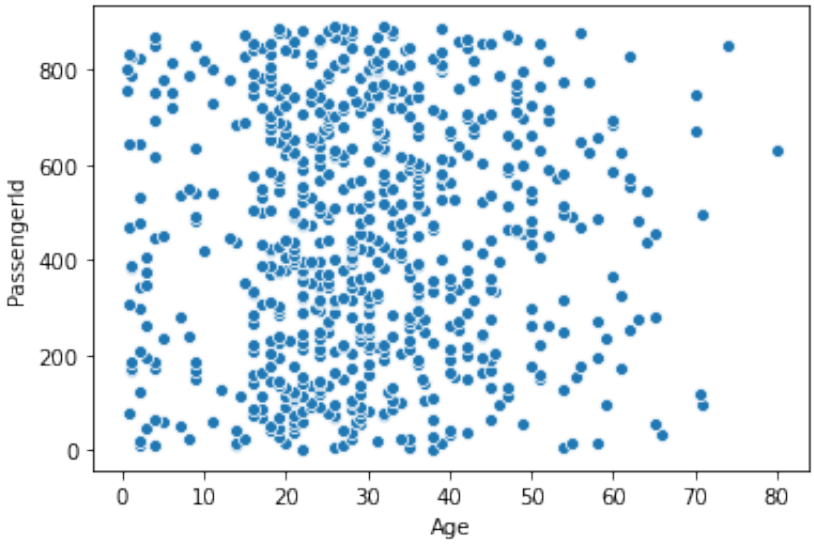
Out[15]: <matplotlib.axes._subplots.AxesSubplot at 0x7fa3804fbfd0>



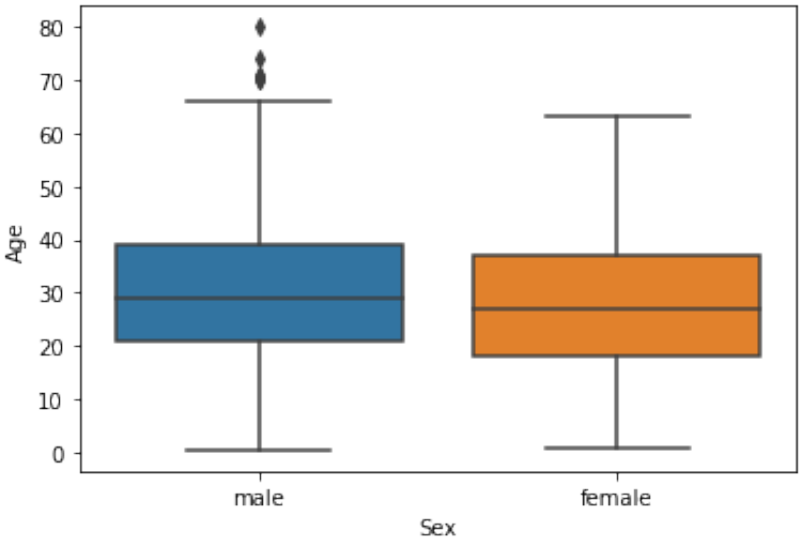
In [19]:
```
# scatter plot

sns.scatterplot(df['Age'],df['PassengerId'])
```

Out[19]: <matplotlib.axes._subplots.AxesSubplot at 0x7fa3806eea60>



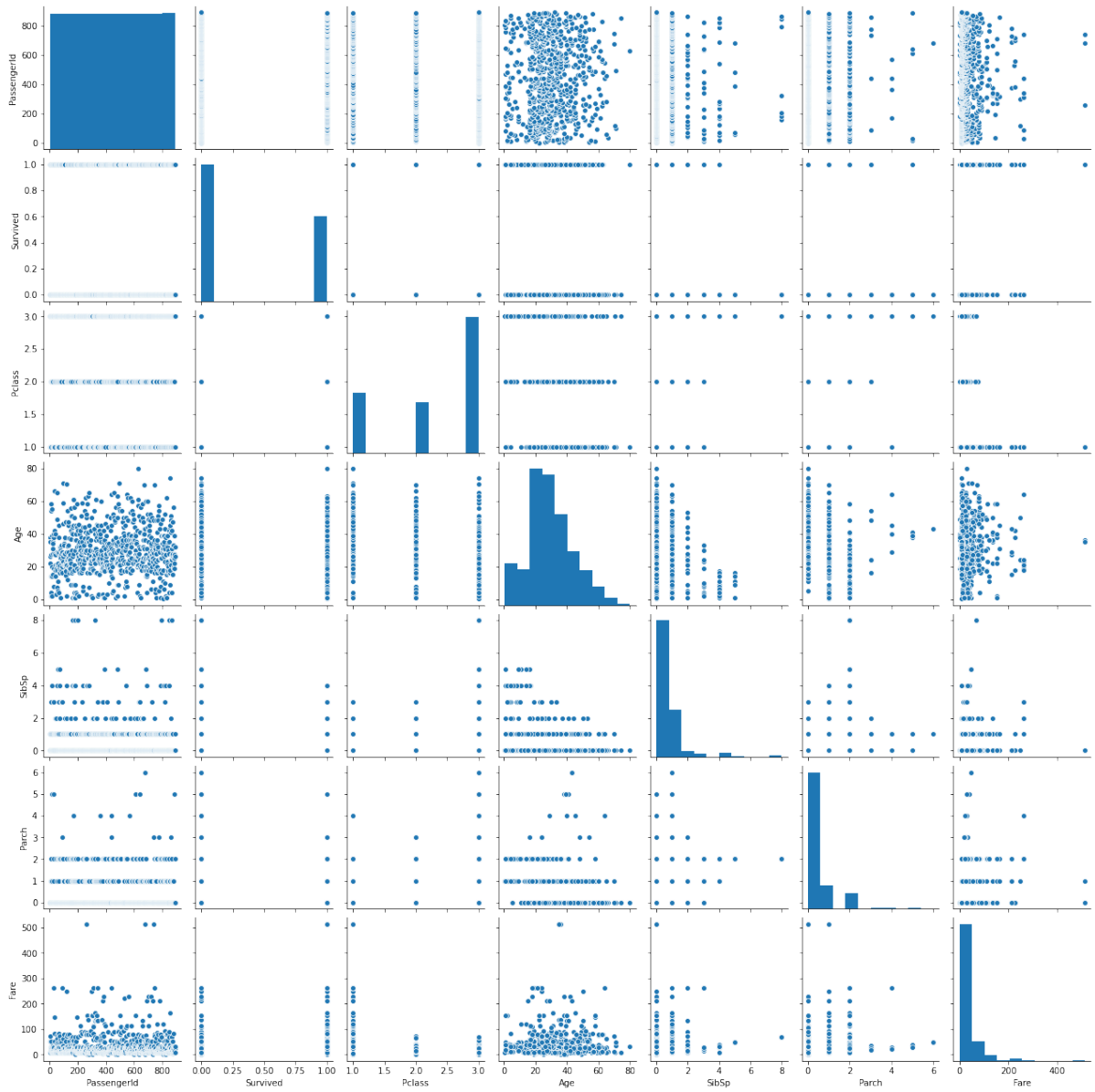
In [22]:
```
# box plot
sns.boxplot(x = 'Sex',y = 'Age',data = df)
plt.show()
```



In [23]:

```
# Pairplot

sns.pairplot(data = df)
plt.show()
```



In [ ]:

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```

In [25]:

```
# heatmap ()
# correlation between diff features
a = df.corr()

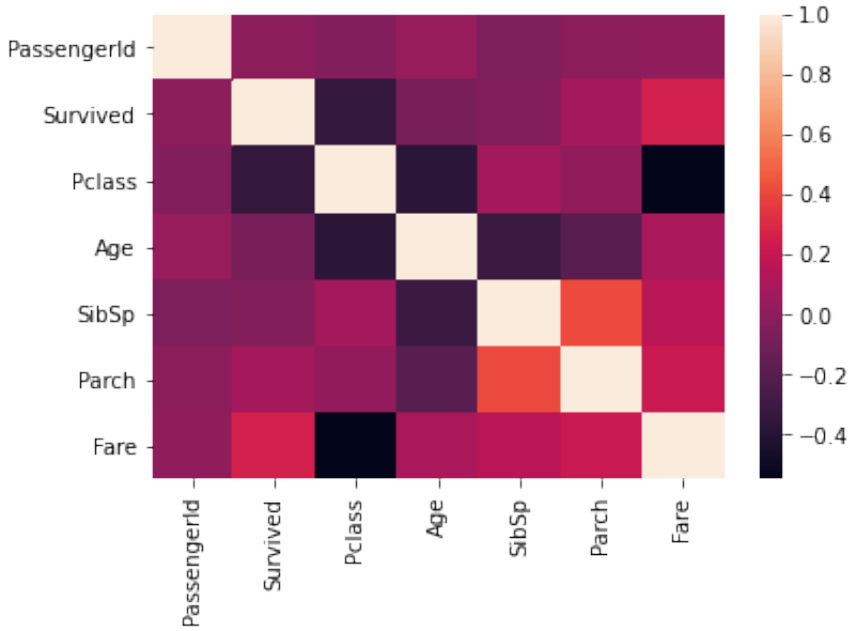
```

In [26]:
```
a
```

Out[26]:

	PassengerId	Survived	Pclass	Age	SibSp	Parch	Fare
PassengerId	1.000000	-0.005007	-0.035144	0.036847	-0.057527	-0.001652	0.012658
Survived	-0.005007	1.000000	-0.338481	-0.077221	-0.035322	0.081629	0.257307
Pclass	-0.035144	-0.338481	1.000000	-0.369226	0.083081	0.018443	-0.549500
Age	0.036847	-0.077221	-0.369226	1.000000	-0.308247	-0.189119	0.096067
SibSp	-0.057527	-0.035322	0.083081	-0.308247	1.000000	0.414838	0.159651
Parch	-0.001652	0.081629	0.018443	-0.189119	0.414838	1.000000	0.216225
Fare	0.012658	0.257307	-0.549500	0.096067	0.159651	0.216225	1.000000

In [27]:
```
sns.heatmap(a)
plt.show()
```



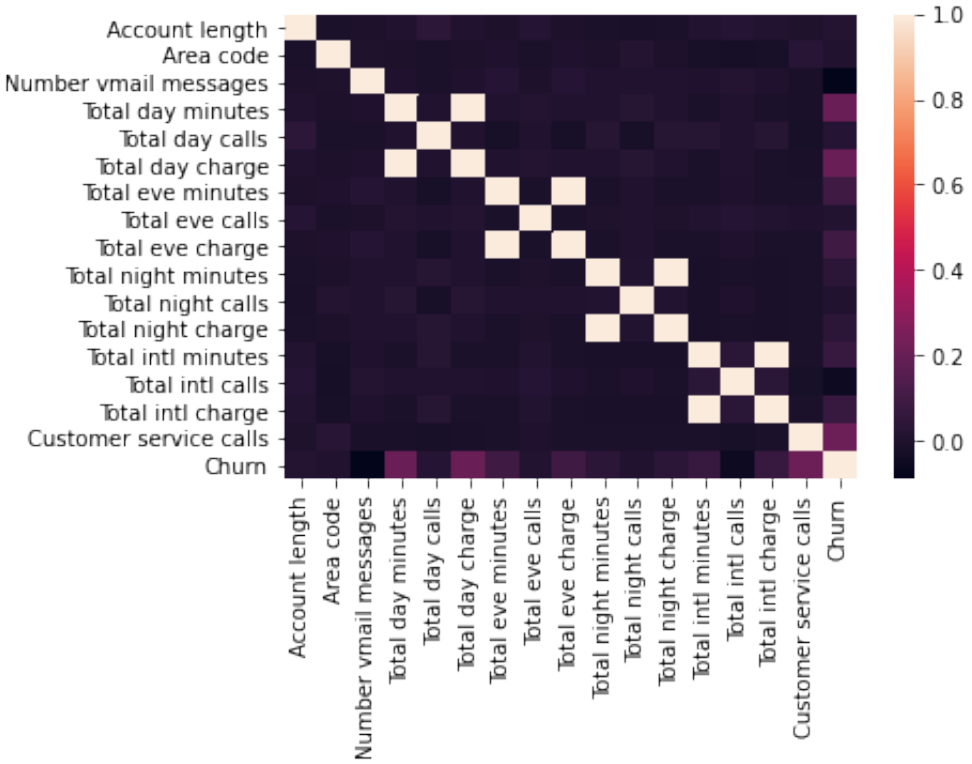
In [28]:
```
df1 = pd.read_csv("telecom_churn.csv")
df1.head()
```

Out[28]:

	State	Account length	Area code	International plan	Voice mail plan	Number vmail messages	Total day minutes	Total day calls	Total day charge	Total eve minutes
0	KS	128	415	No	Yes	25	265.1	110	45.07	197.4
1	OH	107	415	No	Yes	26	161.6	123	27.47	195.5
2	NJ	137	415	No	No	0	243.4	114	41.38	121.2
3	OH	84	408	Yes	No	0	299.4	71	50.90	61.9
4	OK	75	415	Yes	No	0	166.7	113	28.34	148.3

In [30]:
```
b = df1.corr()

sns.heatmap(b)
plt.show()
```



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