SEABORN:

A) IMPORTING LIBRARIES AND DATA:

```
import seaborn as sns
import matplotlib.pyplot as plt
%matplotlib inline
```

```
sns.set_style('whitegrid')
```

```
titanic = sns.load_dataset('titanic')
```

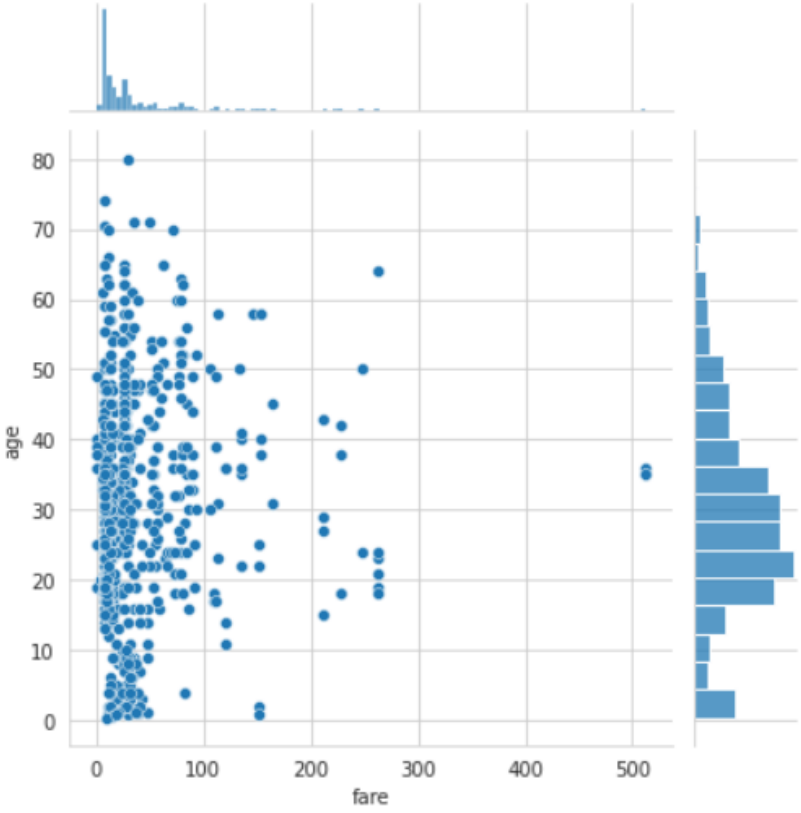
```
titanic.head()
```

	survived	pclass	sex	age	sibsp	parch	fare	embarked	class	who	adult_male	deck	embark_town	alive	alone
0	0	3	male	22.0	1	0	7.2500	S	Third	man	True	NaN	Southampton	no	False
1	1	1	female	38.0	1	0	71.2833	C	First	woman	False	C	Cherbourg	yes	False
2	1	3	female	26.0	0	0	7.9250	S	Third	woman	False	NaN	Southampton	yes	True
3	1	1	female	35.0	1	0	53.1000	S	First	woman	False	C	Southampton	yes	False
4	0	3	male	35.0	0	0	8.0500	S	Third	man	True	NaN	Southampton	no	True

B) JOINPLOT [FARE V/S AGE]:

```
sns.jointplot(x='fare',y='age',data=titanic)
```

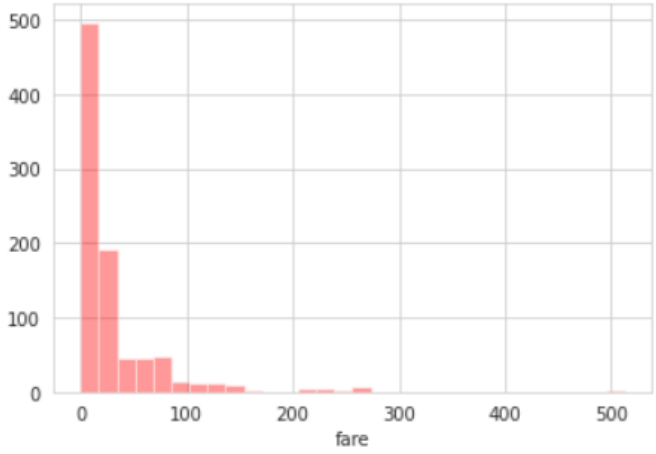
```
<seaborn.axisgrid.JointGrid at 0x7fd921864090>
```



C) **DISPLOT:**

```
sns.distplot(titanic['fare'],bins=30,kde=False,color='red')
```

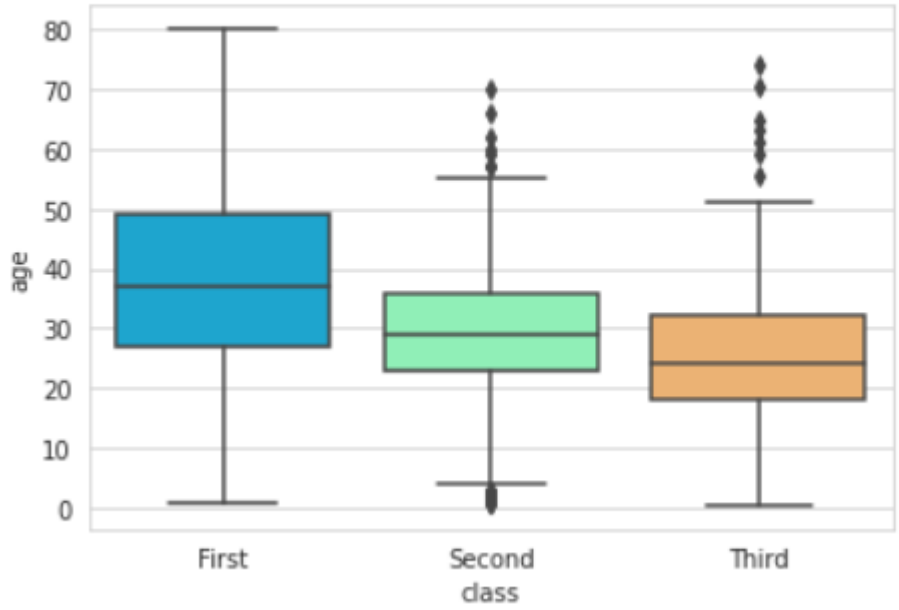
```
/usr/local/lib/python3.7/dist-packages/seaborn/distributions.p
  warnings.warn(msg, FutureWarning)
<matplotlib.axes._subplots.AxesSubplot at 0x7fd91d018550>
```



D) **BOXPLOT:**

```
sns.boxplot(x='class',y='age',data=titanic,palette='rainbow' )
```

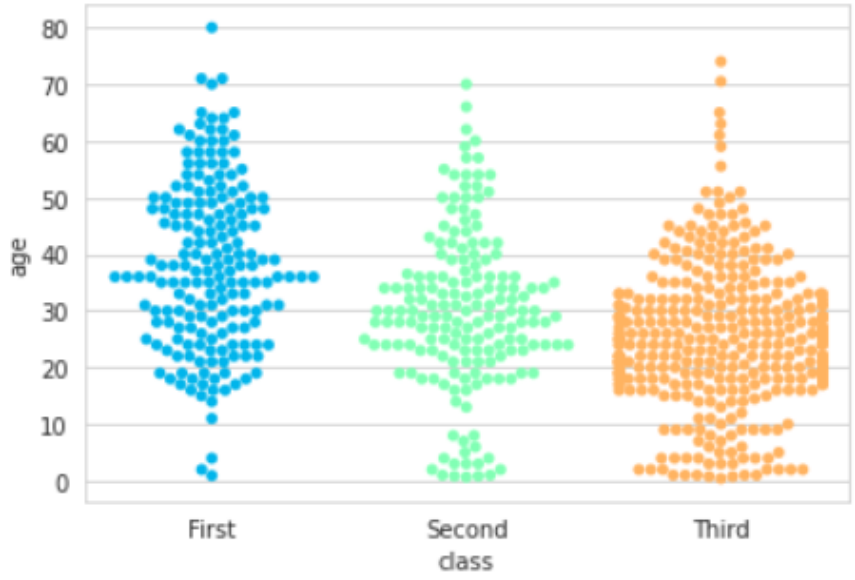
```
<matplotlib.axes._subplots.AxesSubplot at 0x7fd91cf76cd0>
```



E) SWARMPLOT [CLASS V/S AGE]:

```
sns.swarmplot(x='class',y='age',data=titanic,palette='rainbow')
```

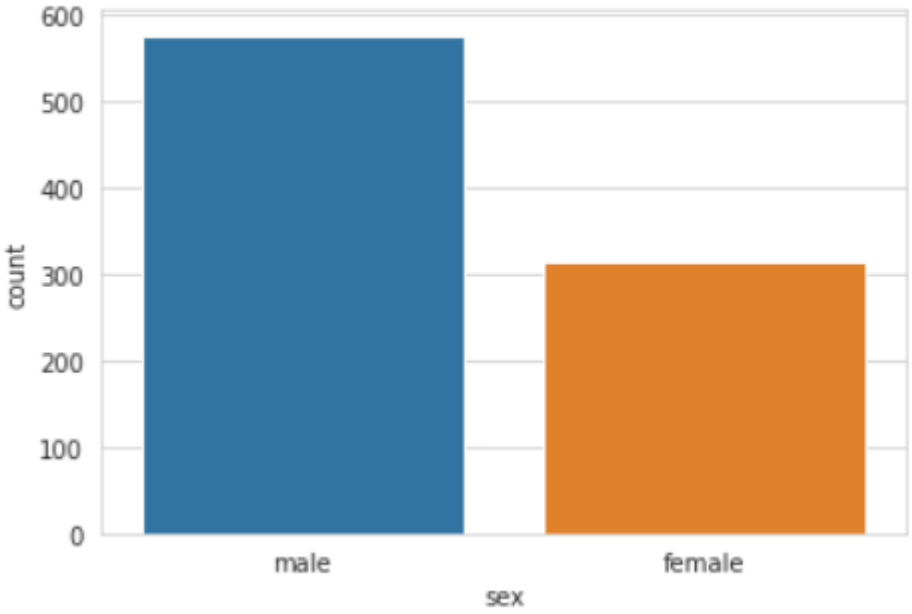
```
/usr/local/lib/python3.7/dist-packages/seaborn/categorical.py:1296:
  warnings.warn(msg, UserWarning)
<matplotlib.axes._subplots.AxesSubplot at 0x7fd91ce78f90>
```



F) COUNTPLOT:

```
sns.countplot(x='sex',data=titanic)
```

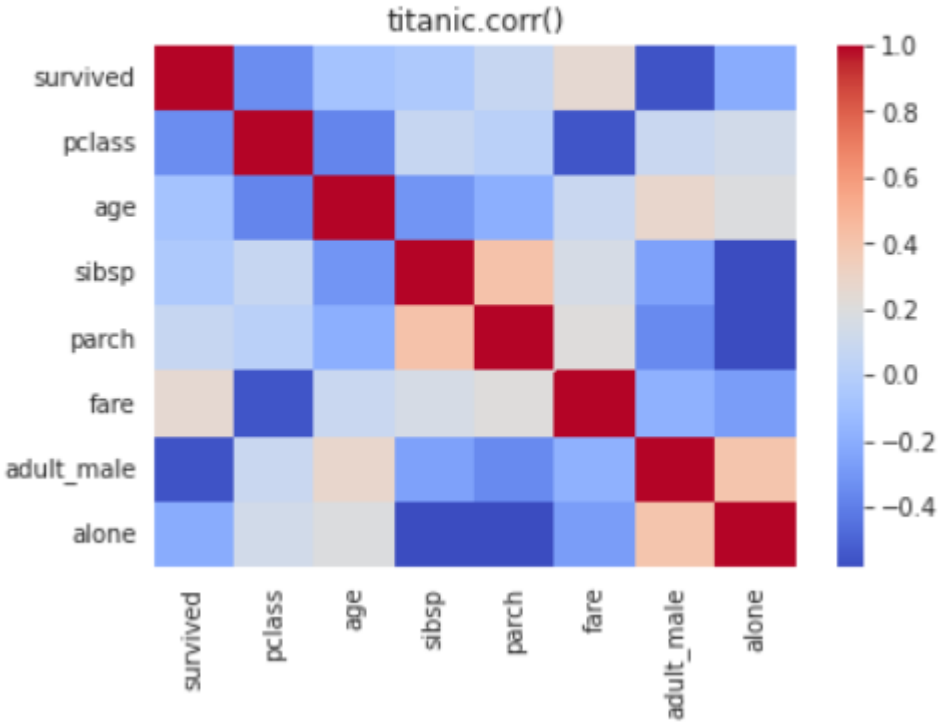
```
<matplotlib.axes._subplots.AxesSubplot at 0x7fd91ce78fd0>
```



G) HEATMAP:

```
sns.heatmap(titanic.corr(),cmap='coolwarm')
plt.title('titanic.corr()')
```

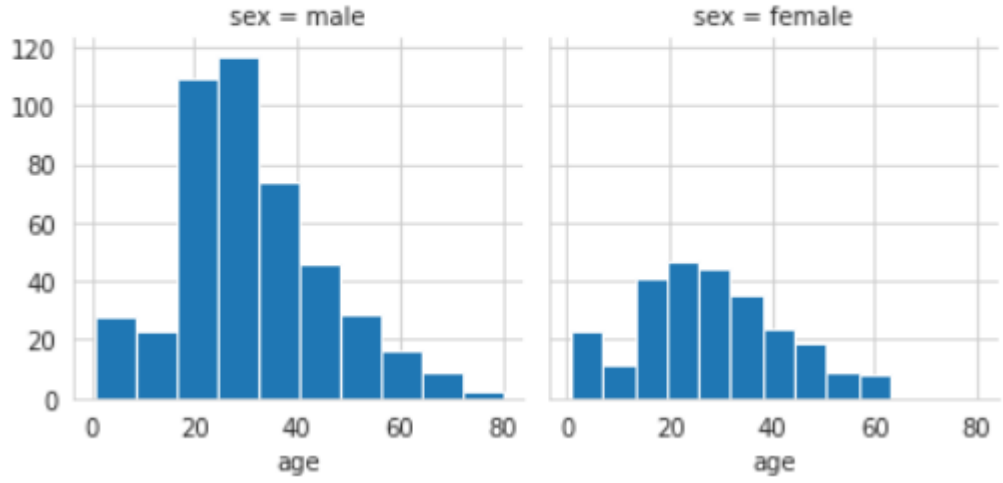
```
Text(0.5, 1.0, 'titanic.corr()')
```



H) FACEGRID:

```
g = sns.FacetGrid(data=titanic,col='sex')
g.map(plt.hist,'age')
```

```
<seaborn.axisgrid.FacetGrid at 0x7fd91cd04450>
```



CONCLUSION:

From this practical, I have successfully learned about seaborn library in python.