

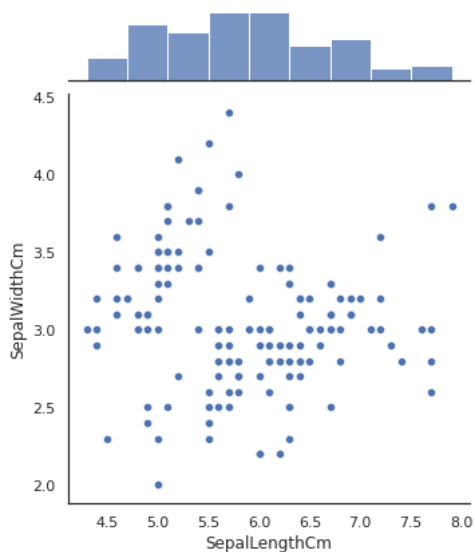
```
# ADS LAB 4
import pandas as pd
# To ignore warnings, use the following code to make the display more attractive.
# Import seaborn and matplotlib.
import warnings
warnings.filterwarnings("ignore")
import seaborn as sns
import matplotlib.pyplot as plt
sns.set(style="white", color_codes=True)
#To import the Iris dataset:
iris = pd.read_csv("Iris.csv") # the iris dataset is now a Pandas DataFrame
#To view Iris data below:
iris.head()
```

	Id	SepalLengthCm	SepalWidthCm	PetalLengthCm	PetalWidthCm	Species
0	1	5.1	3.5	1.4	0.2	Iris-setosa
1	2	4.9	3.0	1.4	0.2	Iris-setosa
2	3	4.7	3.2	1.3	0.2	Iris-setosa
3	4	4.6	3.1	1.5	0.2	Iris-setosa
4	5	5.0	3.6	1.4	0.2	Iris-setosa

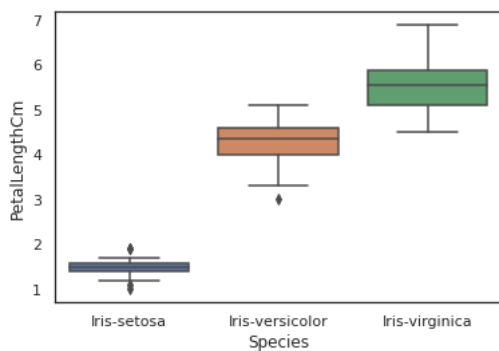
```
iris["Species"].value_counts()
```

```
Iris-setosa      50
Iris-versicolor  50
Iris-virginica   50
Name: Species, dtype: int64
```

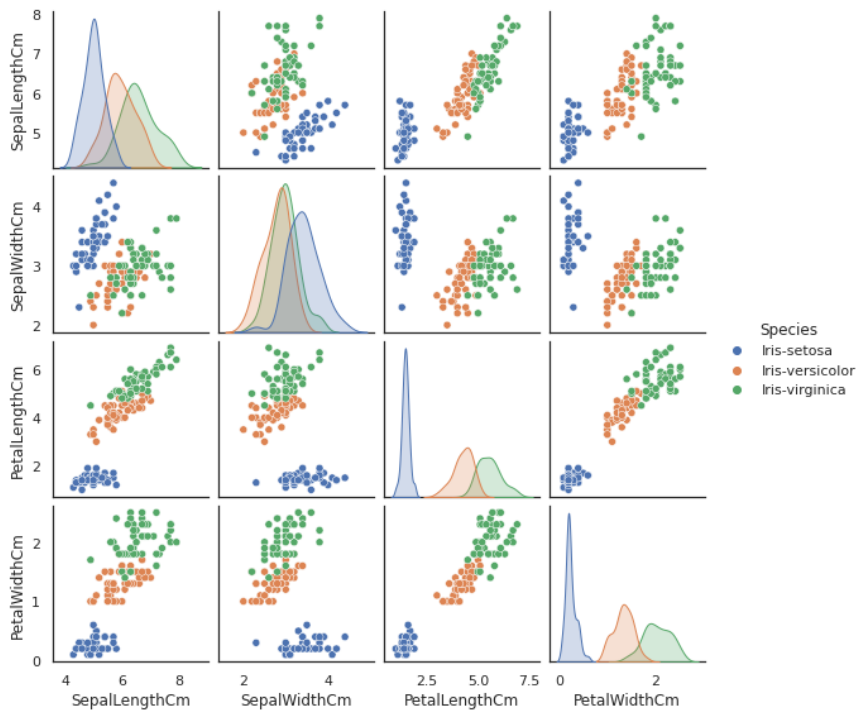
```
sns.jointplot(x="SepalLengthCm", y="SepalWidthCm", data=iris)
plt.show()
```



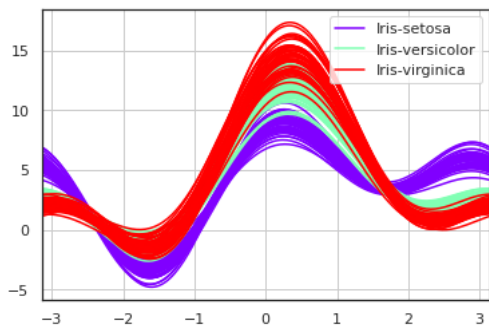
```
ax= sns.boxplot(x="Species", y="PetalLengthCm", data=iris)
#ax= sns.stripplot(x="Species", y="PetalLengthCm", data=iris, jitter=True, edgecolor="gray")
plt.show()
```



```
sns.pairplot(iris.drop("Id", axis=1), hue="Species", size=2)
plt.show()
```



```
from pandas.plotting import andrews_curves
andrews_curves(iris.drop("Id", axis=1), "Species", colormap='rainbow')
plt.show()
```



```
from pandas.plotting import parallel_coordinates
parallel_coordinates(iris.drop("Id", axis=1), "Species", colormap='cool')
plt.show()
```

