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## Importing the required libraries:

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

Here we will load the Iris dataset and store it in a dataframe using pandas.

```
dataset = sns.load_dataset('iris')
```

dataset.head()

<b>→</b>		sepal_length	sepal_width	petal_length	petal_width	species
	0	5.1	3.5	1.4	0.2	setosa
	1	4.9	3.0	1.4	0.2	setosa
	2	4.7	3.2	1.3	0.2	setosa
	3	4.6	3.1	1.5	0.2	setosa
	4	5.0	3.6	1.4	0.2	setosa

Displaying the different features of dataset and their types.

dataset.info()

<class 'pandas.core.frame.DataFrame'> RangeIndex: 150 entries, 0 to 149 Data columns (total 5 columns): Column Non-Null Count Dtype # ---0 sepal\_length 150 non-null float64 sepal width 150 non-null float64 petal\_length 150 non-null float64 2 float64 3 petal width 150 non-null species 150 non-null object dtypes: float64(4), object(1) memory usage: 6.0+ KB

We plot the Histogram for each feature in the dataset.

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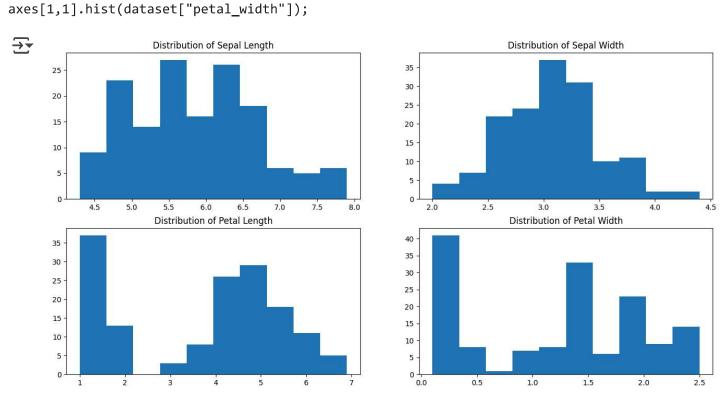
```
fig, axes = plt.subplots(2, 2, figsize=(16, 8))
```

```
axes[0,0].set_title("Distribution of Sepal Length")
axes[0,0].hist(dataset["sepal_length"]);

axes[0,1].set_title("Distribution of Sepal Width")
axes[0,1].hist(dataset["sepal_width"]);

axes[1,0].set_title("Distribution of Petal Length")
axes[1,0].hist(dataset["petal_length"]);

axes[1,1].set_title("Distribution of Petal Width")
```



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We plot the Boxplot for each feature in the dataset.

```
fig, axes = plt.subplots(2, 2, figsize=(16,9))
axes[0,0].set_title("Distribution of Sepal Length")
sns.boxplot( y="sepal_length", x= "species", data=dataset, orient='v' , ax=axes[0, 0])
axes[0,1].set_title("Distribution of Sepal Length")
sns.boxplot( y="sepal_width", x= "species", data=dataset, orient='v' , ax=axes[0, 1])
axes[1,0].set_title("Distribution of Sepal Length")
sns.boxplot( y="petal_length", x= "species", data=dataset, orient='v' , ax=axes[1, 0])
axes[1,1].set_title("Distribution of Sepal Length")
sns.boxplot( y="petal_width", x= "species", data=dataset, orient='v' , ax=axes[1, 1])
plt.show()
```



