df

```
import numpy as np
import pandas as pd
```

from google.colab import files
uploaded = files.upload()

Choose Files No file chosen Upload widget is only available when the cell has been executed in the current browser session. Please rerun this cell to enable.

import io
df = pd.read_csv(io.BytesIO(uploaded['Iris.csv']))

₽		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
	145	146	6.7	3.0	5.2	2.3	Iris-virginica
	146	147	6.3	2.5	5.0	1.9	Iris-virginica
	147	148	6.5	3.0	5.2	2.0	Iris-virginica
	148	149	6.2	3.4	5.4	2.3	Iris-virginica
	149	150	5.9	3.0	5.1	1.8	Iris-virginica

150 rows × 6 columns

```
column = len(list(df))
column
```

6

df.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 150 entries, 0 to 149
Data columns (total 6 columns):
 # Column Non-Null Count Dtype

```
int64
     Ιd
                    150 non-null
 1
     SepalLengthCm 150 non-null
                                     float64
 2
     SepalWidthCm
                    150 non-null
                                     float64
     PetalLengthCm 150 non-null
                                     float64
 4
     PetalWidthCm
                    150 non-null
                                    float64
 5
     Species
                    150 non-null
                                     obiect
dtypes: float64(4), int64(1), object(1)
memory usage: 7.2+ KB
```

df.describe()

import seaborn as sns

	Id	SepalLengthCm	SepalWidthCm	PetalLengthCm	PetalWidthCm
count	150.000000	150.000000	150.000000	150.000000	150.000000
mean	75.500000	5.843333	3.054000	3.758667	1.198667
std	43.445368	0.828066	0.433594	1.764420	0.763161
min	1.000000	4.300000	2.000000	1.000000	0.100000
25%	38.250000	5.100000	2.800000	1.600000	0.300000
50%	75.500000	5.800000	3.000000	4.350000	1.300000
75%	112.750000	6.400000	3.300000	5.100000	1.800000
max	150.000000	7.900000	4.400000	6.900000	2.500000

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

# importing packages
import seaborn as sns
import matplotlib.pyplot as plt

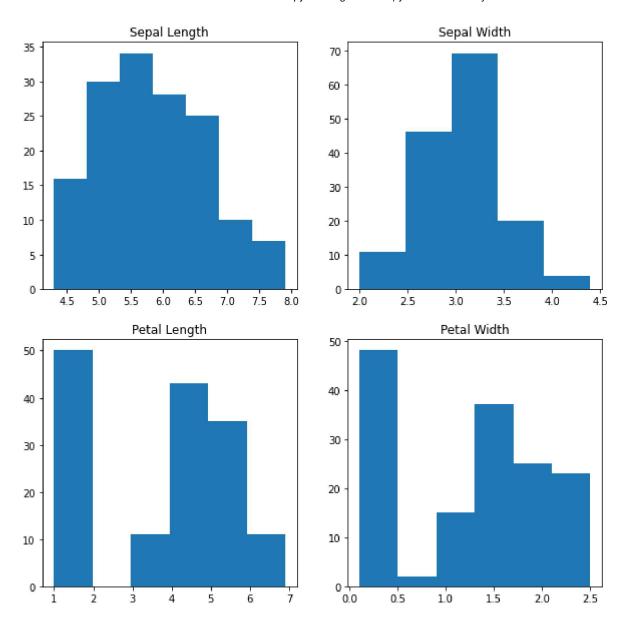
fig, axes = plt.subplots(2, 2, figsize=(10,10))

axes[0,0].set_title("Sepal Length")
axes[0,0].hist(df['SepalLengthCm'], bins=7)

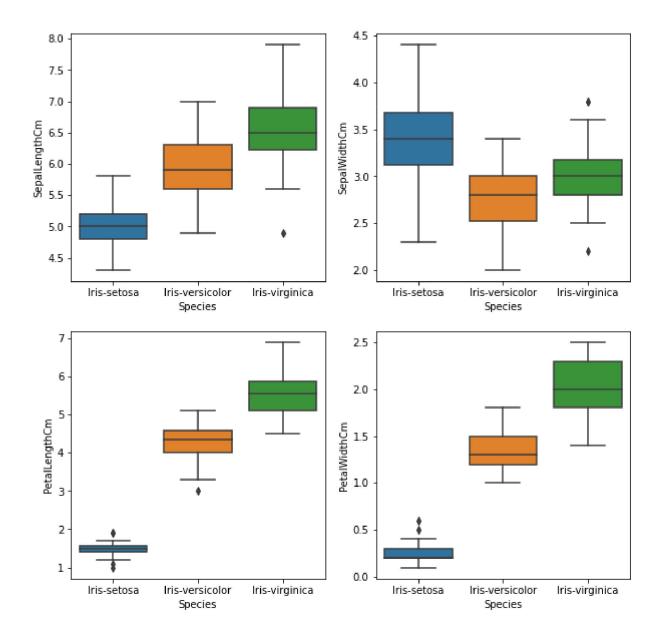
axes[0,1].set_title("Sepal Width")
axes[0,1].hist(df['SepalWidthCm'], bins=5);

axes[1,0].set_title("Petal Length")
axes[1,0].hist(df['PetalLengthCm'], bins=6);

axes[1,1].set_title("Petal Width")
axes[1,1].hist(df['PetalWidthCm'], bins=6);
```



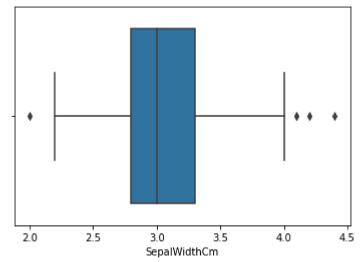
```
graph('PetalLengthCm')
plt.subplot(224)
graph('PetalWidthCm')
plt.show()
```



```
# importing packages
import seaborn as sns
import matplotlib.pyplot as plt

# Load the dataset
df = pd.read_csv('Iris.csv')
sns.boxplot(x='SepalWidthCm', data=df)
```

<matplotlib.axes._subplots.AxesSubplot at 0x7fe176e69290>



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