```python
import numpy as np
import pandas as pd
from numpy import array
```

```python
df = pd.read_csv("Iris.csv")
```

```python
df.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

Next steps: [Generate code with df]   [◯ View recommended plots]   [New interactive sheet]

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

```
6
```

```python
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 150 entries, 0 to 149
Data columns (total 6 columns):
 #   Column         Non-Null Count  Dtype
---  ------         --------------  -----
 0   Id             150 non-null    int64
 1   SepalLengthCm  150 non-null    float64
 2   SepalWidthCm   150 non-null    float64
 3   PetalLengthCm  150 non-null    float64
 4   PetalWidthCm   150 non-null    float64
 5   Species        150 non-null    object
dtypes: float64(4), int64(1), object(1)
memory usage: 7.2+ KB
```

```python
np.unique(df["Species"])
array(['Iris-setosa', 'Iris-versicolor', 'Iris-virginica'], dtype=object)
```

```
array(['Iris-setosa', 'Iris-versicolor', 'Iris-virginica'], dtype=object)
```

```
df.describe()
```

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

```
fig, axes = plt.subplots(2, 2, figsize=(16, 8))
axes[0,0].set_title("Distribution of First Column")
axes[0,0].hist(df["SepalLengthCm"]);

axes[0,1].set_title("Distribution of Second Column")
axes[0,1].hist(df["SepalWidthCm"]);

axes[1,0].set_title("Distribution of Third Column")
axes[1,0].hist(df["PetalLengthCm"]);

axes[1,1].set_title("Distribution of Fourth Column")
axes[1,1].hist(df["PetalWidthCm"]);
```
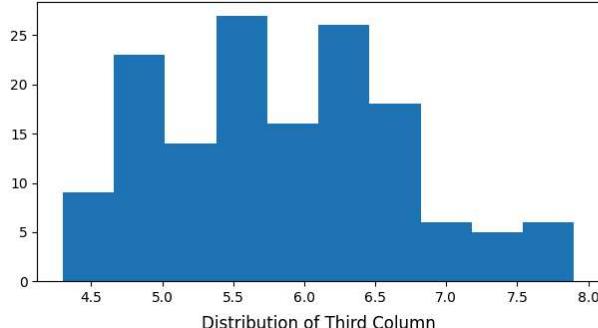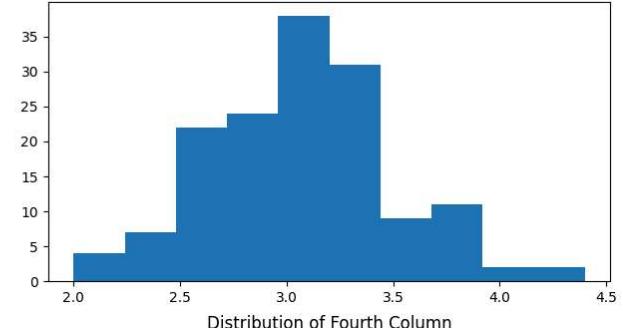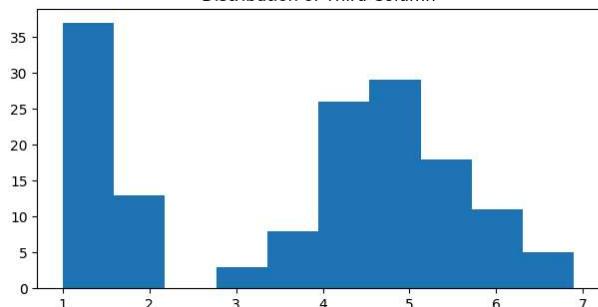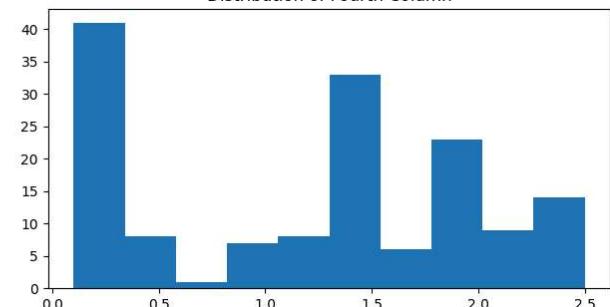
Distribution of First Column / Distribution of Second Column / Distribution of Third Column / Distribution of Fourth Column
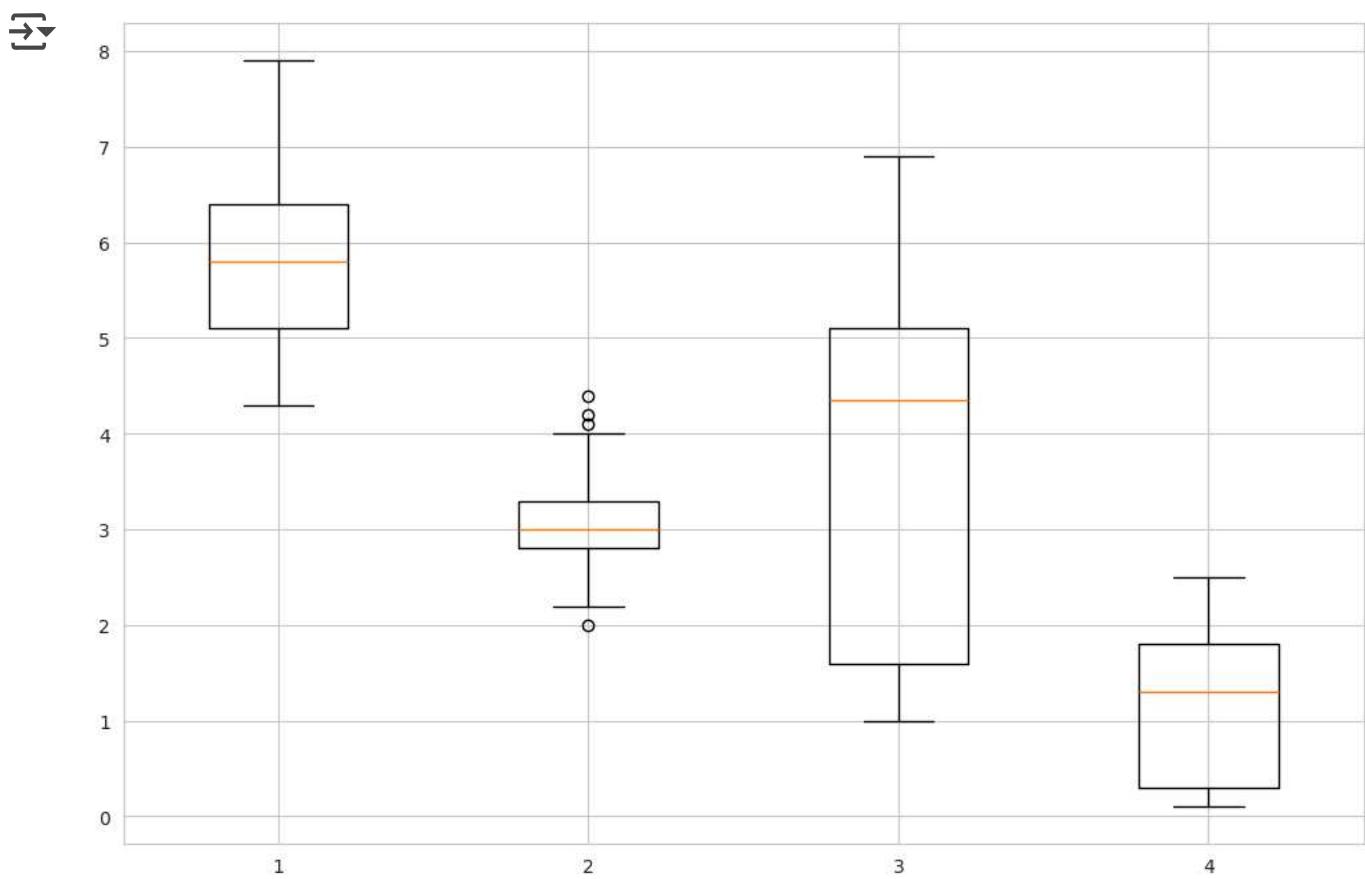
```
data_to_plot = [df["SepalLengthCm"],df["SepalWidthCm"],df["PetalLengthCm"],df["P
sns.set_style("whitegrid")
```

```
# Creating a figure instance
fig = plt.figure(1, figsize=(12,8))

# Creating an axes instance
ax = fig.add_subplot(111)

# Creating the boxplot
bp = ax.boxplot(data_to_plot);
```

Start coding or generate with AI.