```
import pandas as pd
import numpy as np

df=pd.read_csv("IRIS.csv")

df.columns=["col1","col2","col3","col4","col5"]

df.head()
```

```
   col1  col2  col3  col4         col5
0   5.1   3.5   1.4   0.2  Iris-setosa
1   4.9   3.0   1.4   0.2  Iris-setosa
2   4.7   3.2   1.3   0.2  Iris-setosa
3   4.6   3.1   1.5   0.2  Iris-setosa
4   5.0   3.6   1.4   0.2  Iris-setosa
```

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

```
5
```

```
df.info()
```

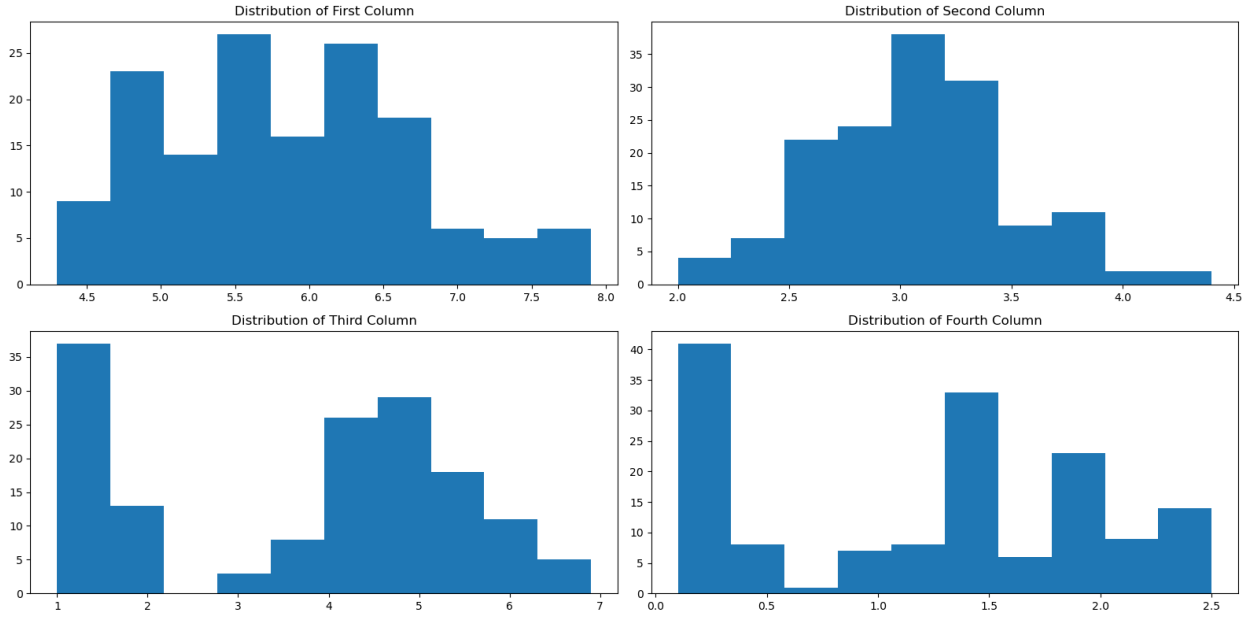
```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 150 entries, 0 to 149
Data columns (total 5 columns):
 #   Column  Non-Null Count  Dtype  
---  ------  --------------  -----  
 0   col1    150 non-null    float64
 1   col2    150 non-null    float64
 2   col3    150 non-null    float64
 3   col4    150 non-null    float64
 4   col5    150 non-null    object 
dtypes: float64(4), object(1)
memory usage: 6.0+ KB
```

```
np.unique(df["col5"])
```

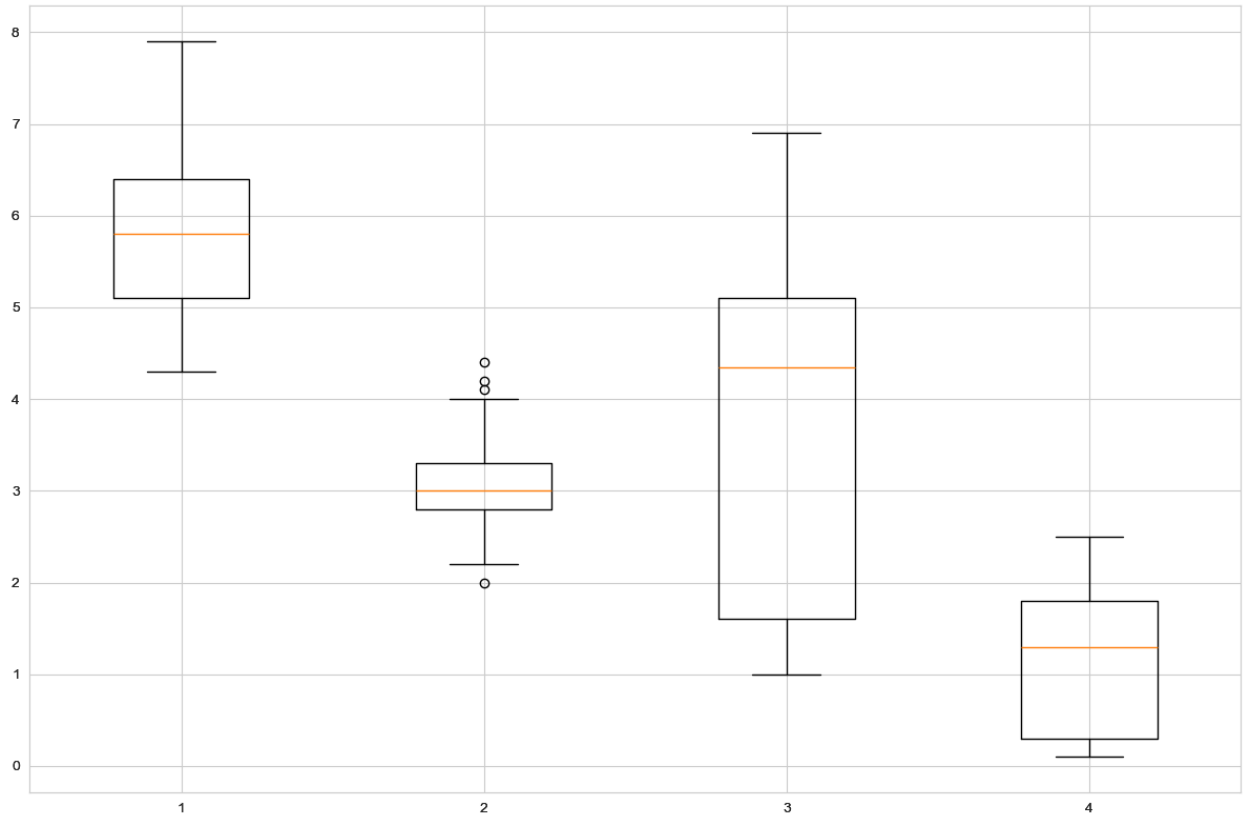
```
array(['Iris-setosa', 'Iris-versicolor', 'Iris-virginica'],
dtype=object)
```

```
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["col1"]);

axes[0,1].set_title("Distribution of Second Column")
```

```
axes[0,1].hist(df["col2"]);

axes[1,0].set_title("Distribution of Third Column")
axes[1,0].hist(df["col3"]);

axes[1,1].set_title("Distribution of Fourth Column")
axes[1,1].hist(df["col4"]);

plt.tight_layout()
plt.show()
```




```
data_to_plot= [df["col1"],df["col2"],df["col3"],df["col4"]]
sns.set_style("whitegrid")

fig=plt.figure(1,figsize=(12,8))

ax=fig.add_subplot(111)

bp=ax.boxplot(data_to_plot);

plt.tight_layout()
plt.show()
```


8
7
6
5
4
3
2
1
0
1
2
3
4