

Assignment No. 10

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

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

<IPython.core.display.HTML object>

Saving Iris.csv to Iris.csv

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

df.columns

Index(['Id', 'SepalLengthCm', 'SepalWidthCm', 'PetalLengthCm',
      'PetalWidthCm',
      'Species'],
      dtype='object')

column = len(list(df))
column

6

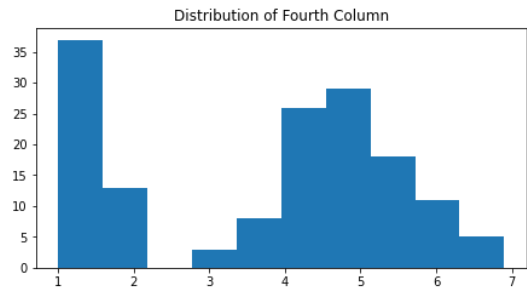
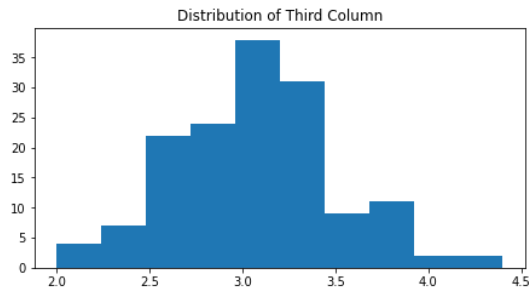
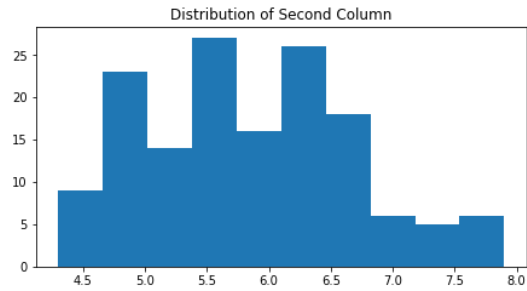
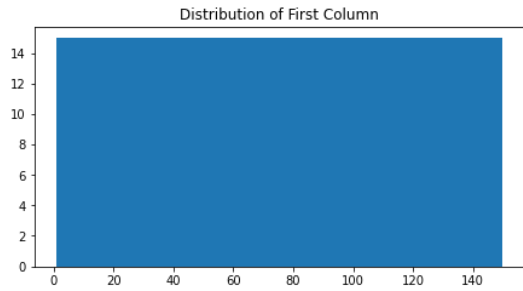
fig, axes = plt.subplots(2, 2, figsize=(16, 8))

axes[0,0].set_title("Distribution of First Column")
axes[0,0].hist(df["Id"]);

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

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

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

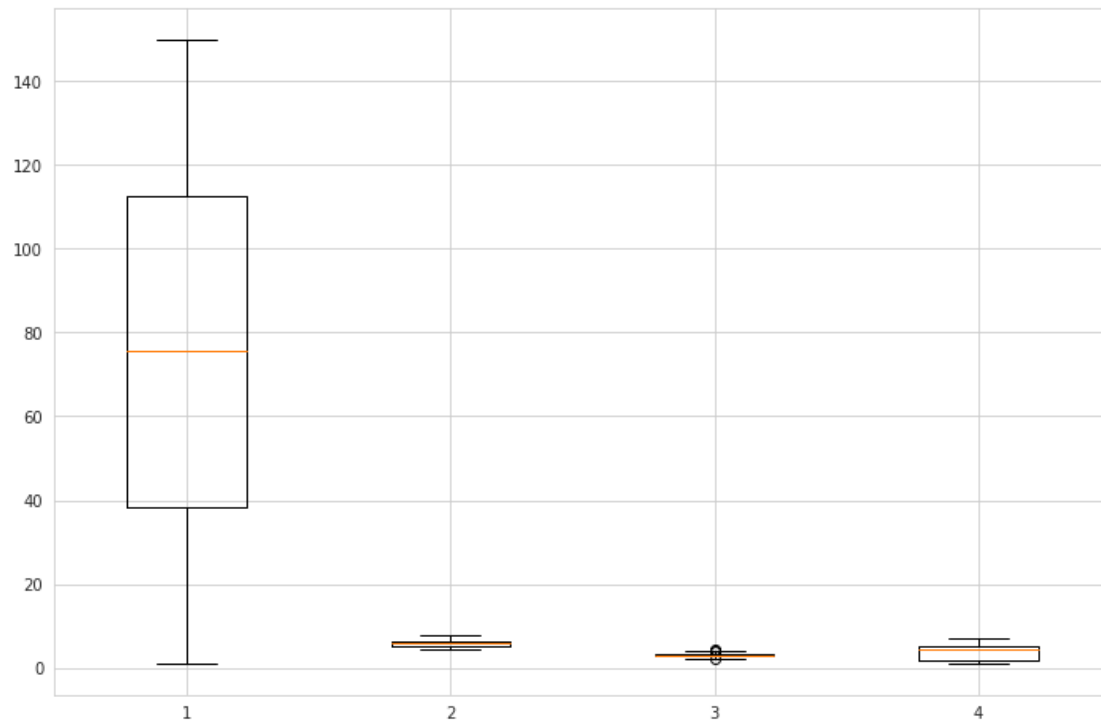


```
data_to_plot =
[df["Id"],df["SepalLengthCm"],df["SepalWidthCm"],df["PetalLengthCm"]]
```

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

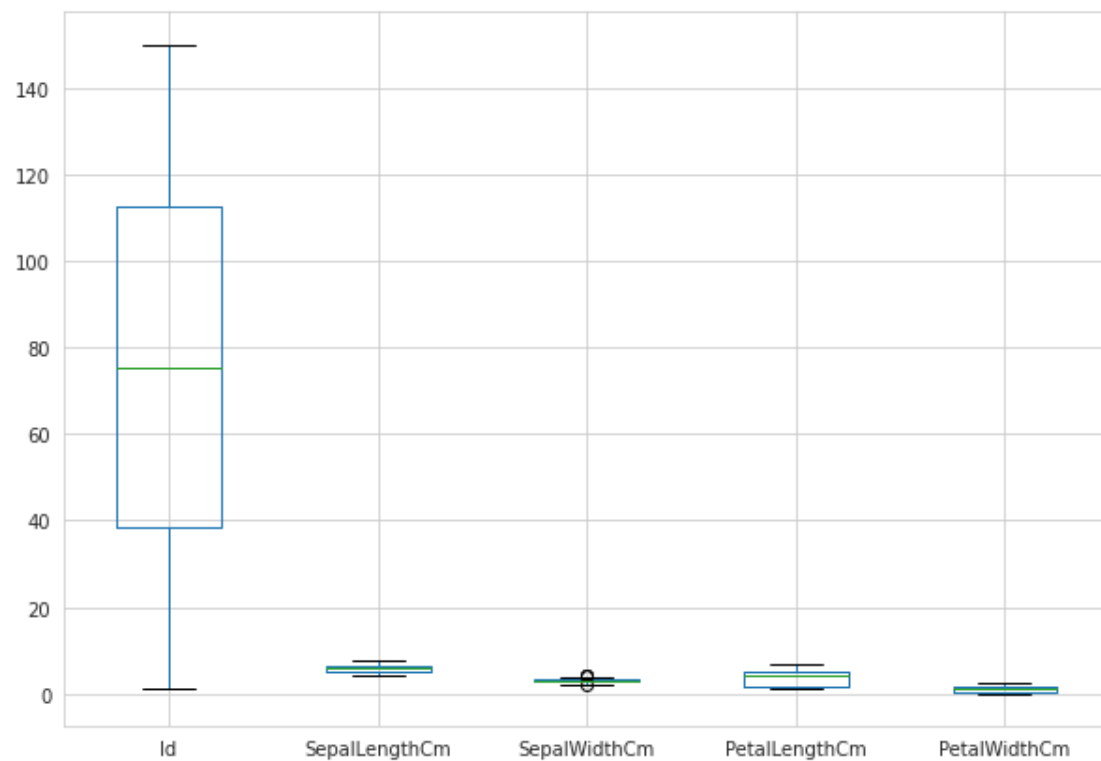
```
# Creating an axes instance
ax = fig.add_subplot(111)
```

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



```
plt.figure(figsize = (10,7))  
df.boxplot()
```

<matplotlib.axes._subplots.AxesSubplot at 0x7fcca23ca850>



```
df.plot(kind = "scatter",  
        x = 'SepalLengthCm',  
        y = 'PetalLengthCm')  
plt.grid  
  
<function matplotlib.pyplot.grid>
```

