Kyle James G. Bautista BSIT 3E

```
# -*- coding: utf-8 -*-
"""Copy of Anomaly Detection Code No. 1.ipynb

Automatically generated by Colab.

Original file is located at
    https://colab.research.google.com/drive/16Fg-AHkkt1e4AgonXMLBuptiSbJB581m
"""

# Commented out IPython magic to ensure Python compatibility.
import pandas as pd
import matplotlib.pyplot as plt
from sklearn.datasets import load_iris
# %matplotlib inline

iris = load_iris()
df = pd.DataFrame(iris.data, columns=iris.feature_names)

df

df.boxplot(figsize=(15, 9))

df.describe()

Q1 = df["sepal width (cm)"].quantile(0.25)
Q3 = df["sepal width (cm)"].quantile(0.75)
```

```
IQR = Q3 - Q1
print(IQR)

ub = Q3 + 1.5*IQR
ub

df[df["sepal width (cm)"] > ub]

df2 = df[df["sepal width (cm)"] < ub]
df2.shape

lb = Q1 - 1.5*IQR
df2 = df2[df2["sepal width (cm)"] > lb]
df2.shape

df2.boxplot(figsize=(15, 9))
```