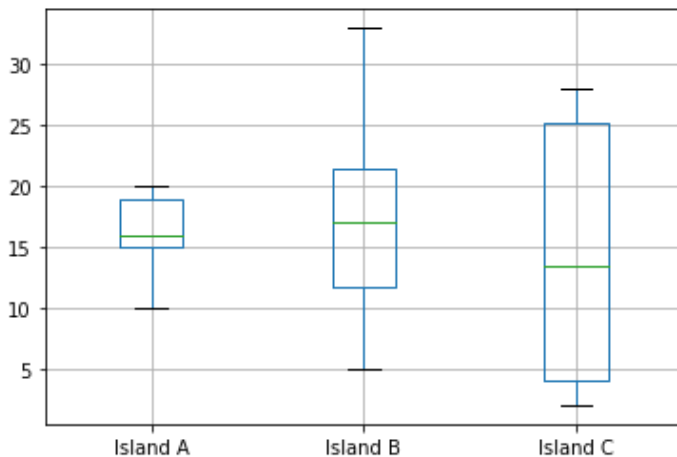In [7]: # Read Tree Diameter Data
import pandas as pd
from scipy import stats
import numpy as np
import matplotlib.pyplot as plt

data = pd.read_excel('TestData.xlsx', sheet_name=0)
data.head()

Out[7]:

	Island A	Island B	Island C
0	16	10	5
1	19	11	4
2	20	23	5
3	10	9	3
4	19	19	2

In [8]: boxplot = data.boxplot()
plt.show()

In [9]: results = stats.f_oneway(data[['Island A']], data[['Island B']], data[['Island C']])
print("Test Statistic:", results.statistic[0])
print("p-value:", results.pvalue[0])

Test Statistic: 0.5167889575009081
p-value: 0.5992002762037192

In [ ]: