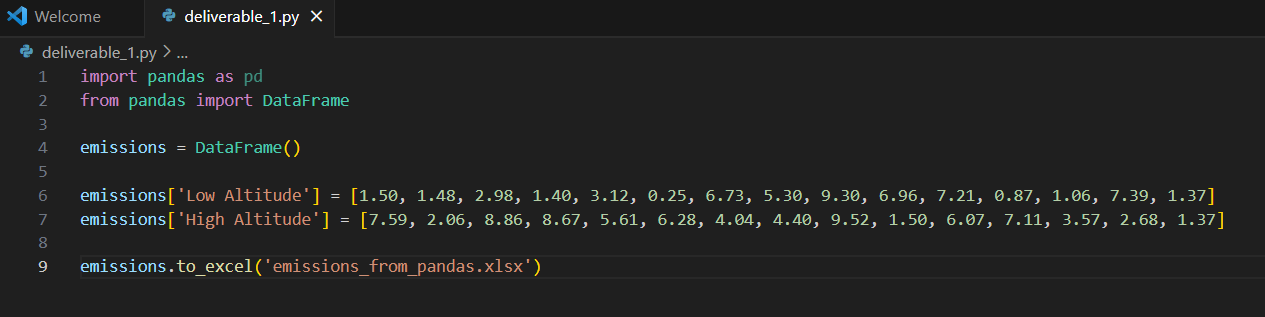
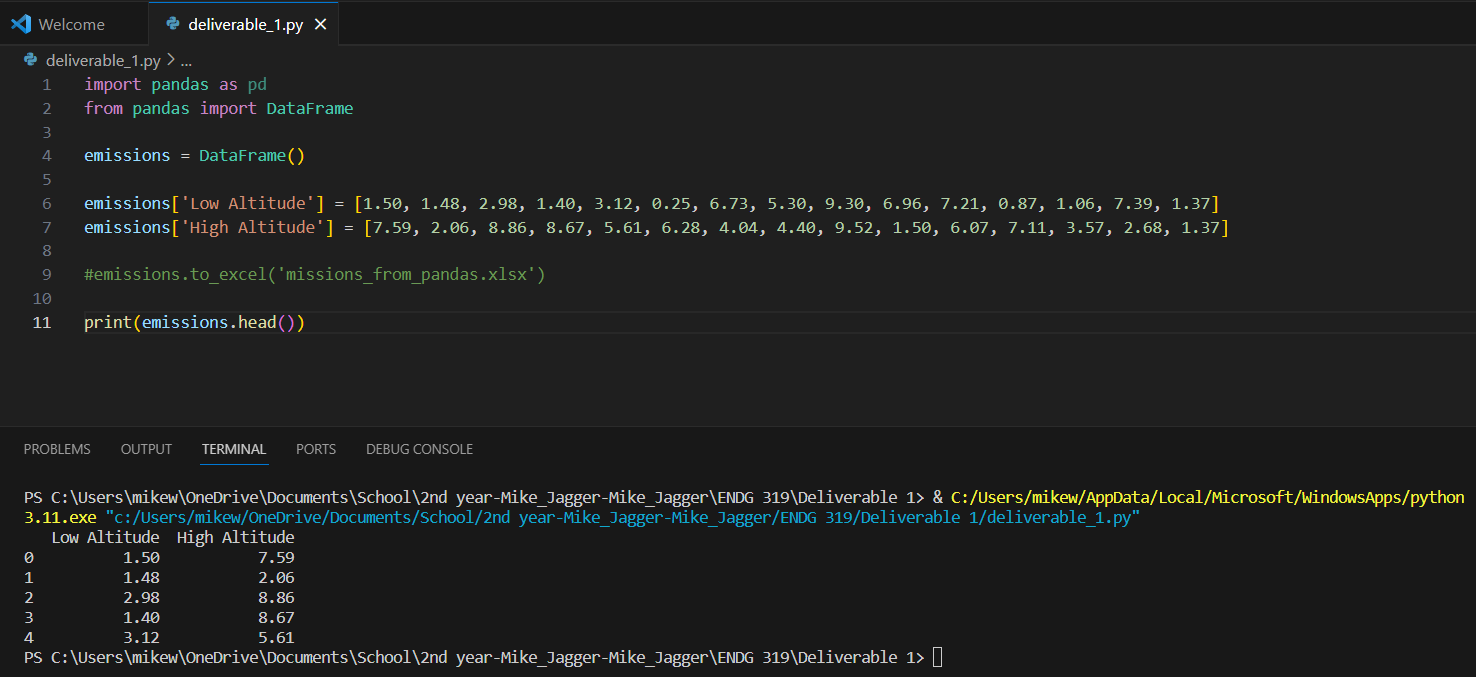
**Course**: Probability, Statistics and Machine  
Learning– ENDG 319  
**Deliverable #**: 1  
**Student Name**: Gerard Ledoux Mendjemo Ngangom  
**Lecture Section**: L01  
**Date submitted**: Sept 29, 2023

Task 1

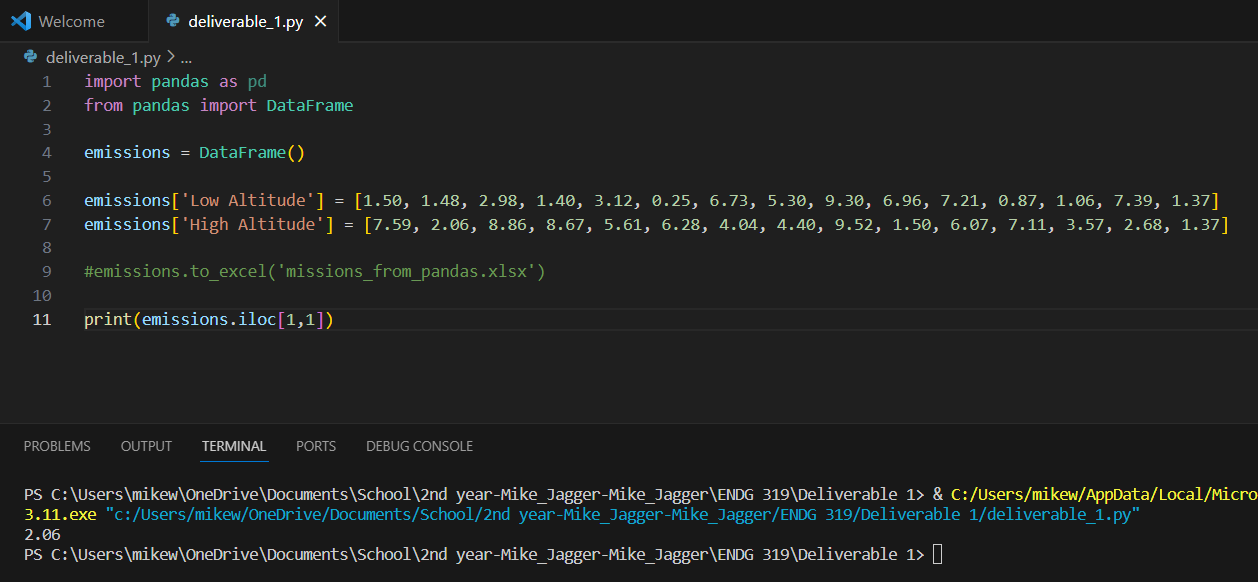


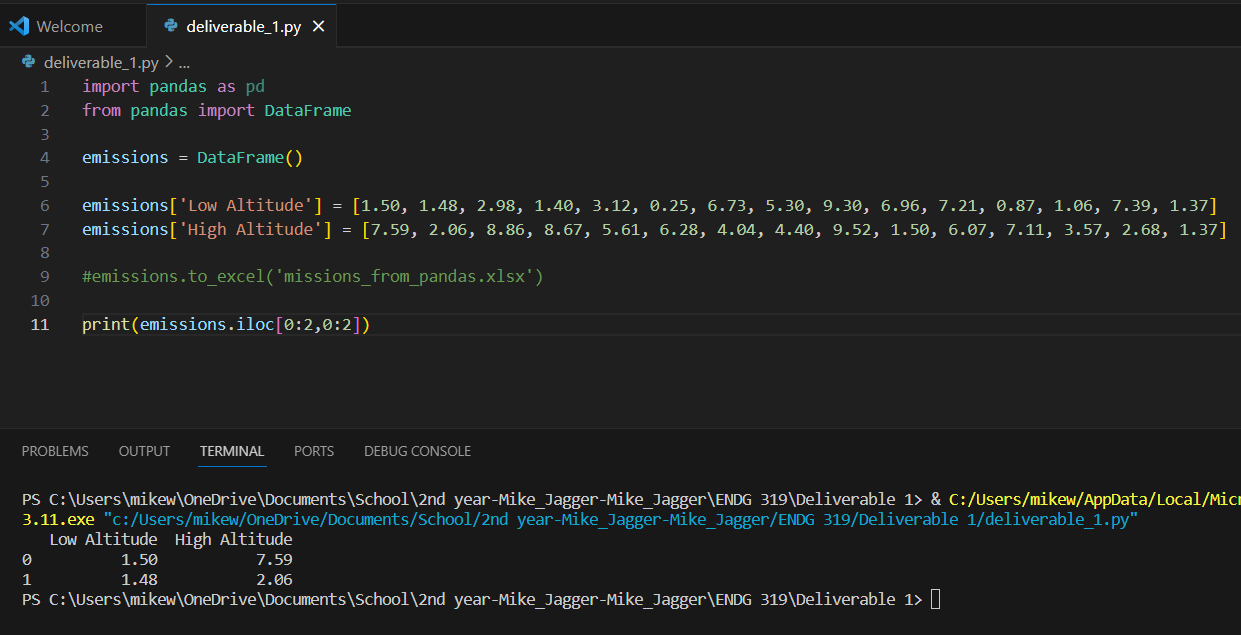
A screenshot of a computer

Description automatically generated



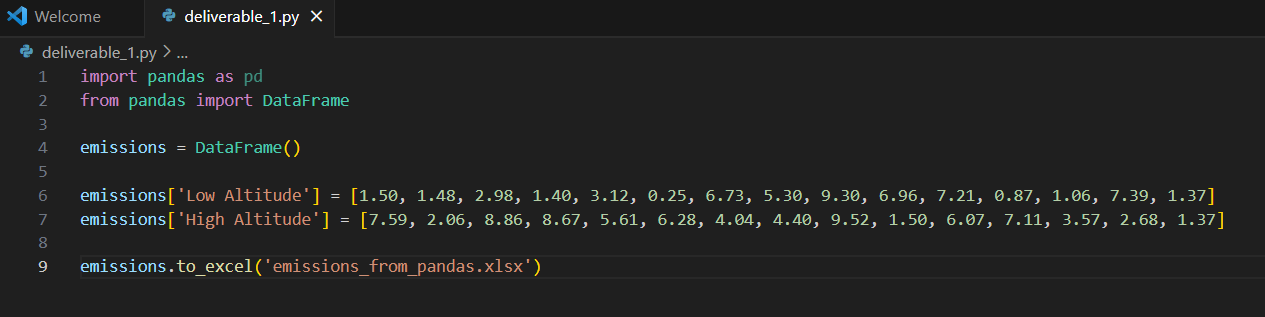






A screenshot of a computer program

Description automatically generated

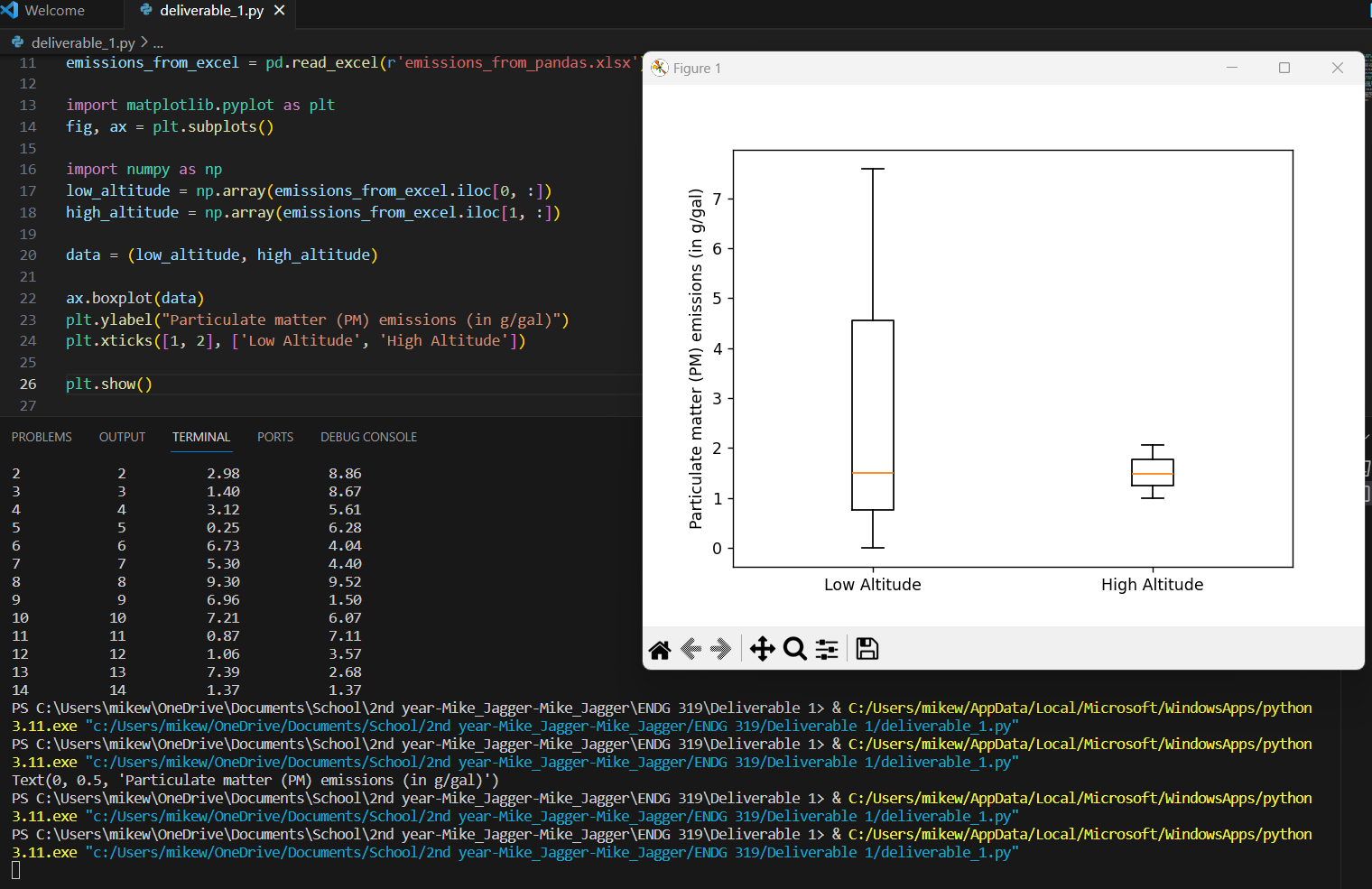




A screenshot of a computer program

Description automatically generated

Task 2



A screenshot of a computer program

Description automatically generated

In a boxplot with sample values, the box represents the middle 50% of the data, where the lower edge is the 25th percentile (Q1) and the upper edge is the 75th percentile (Q3). The line inside the box is the median (50th percentile). The whiskers extend to the minimum and maximum values within 1.5 times the IQR (IQR = Q3 - Q1).

1. a.

A screenshot of a graph

Description automatically generated

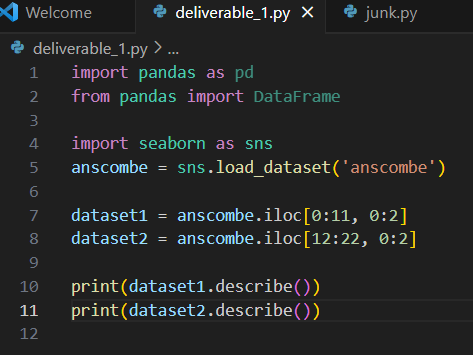
b.

A graph of a graph showing the same size of a graph

Description automatically generated with medium confidence

Task 3

a) and b)

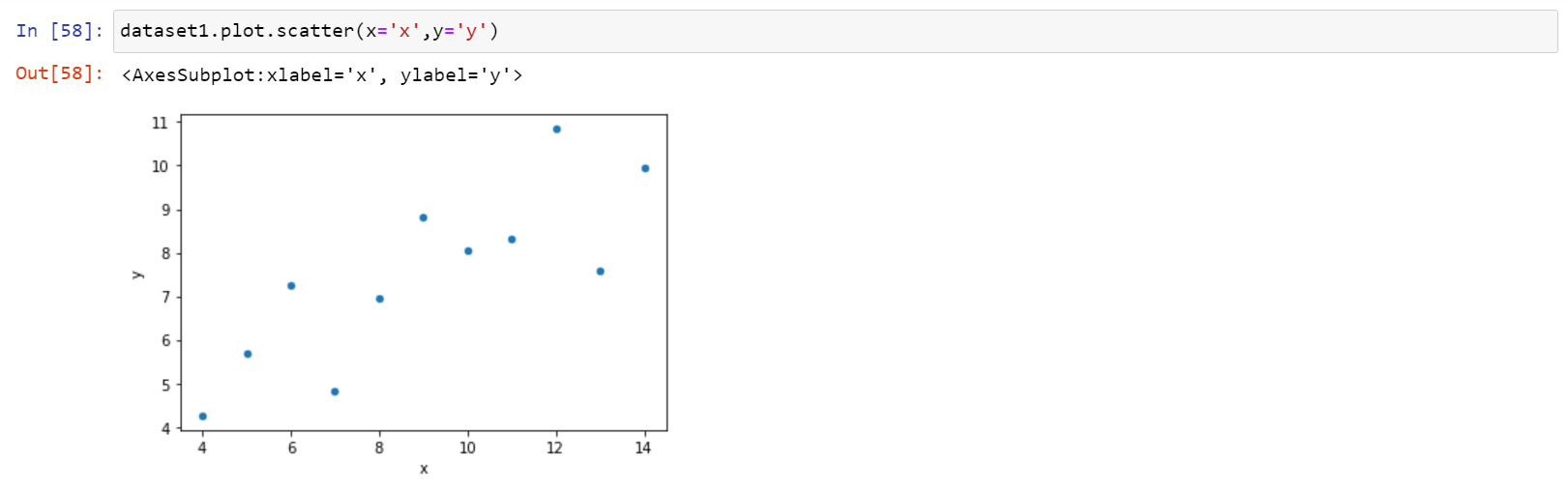


c) Yes. There is the difference between the count, mean, standard deviation, 25th, 50th and 75th percentile of both datasets

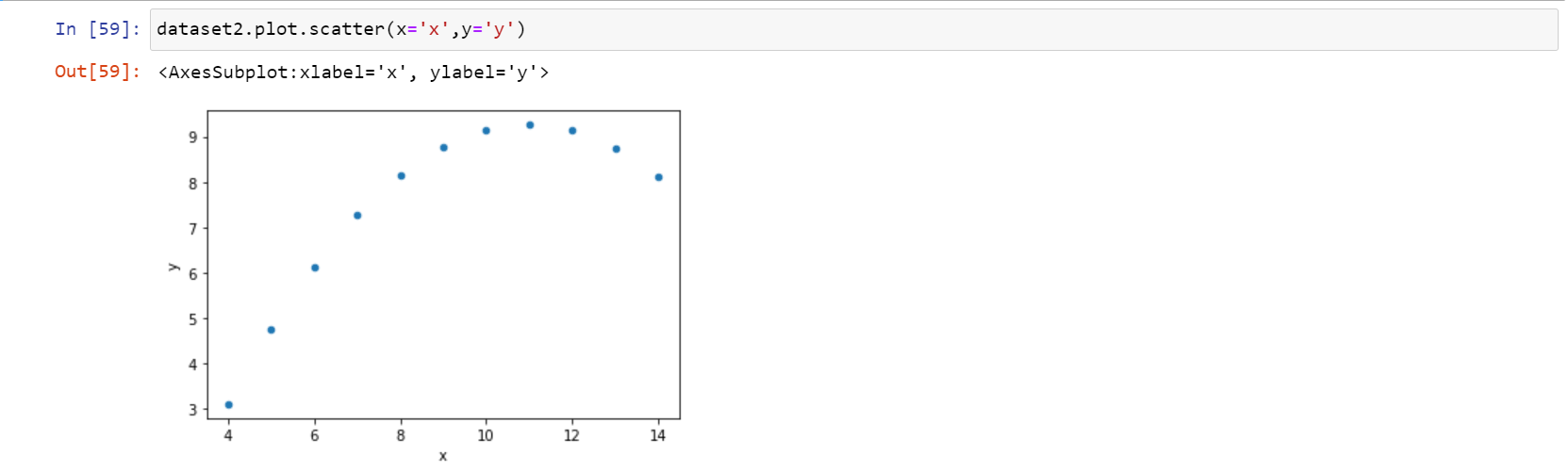
A screenshot of a computer screen

Description automatically generated

d) Dataset1



Dataset2



The points of the plot of dataset1 are scattered across the graph. However, that of dataset2 come together to form a quadratic-like graph.

TASK 4

a)

A screenshot of a computer

Description automatically generated

b)

A screenshot of a computer

Description automatically generatedA close-up of a computer code

Description automatically generatedA screenshot of a computer

Description automatically generatedA close-up of a number

Description automatically generatedA close-up of a computer code

Description automatically generated