**Unit 8 Assignment 1**

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IN300: Programming for Data Analysis

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**Python Code and Results**

**File A**

**Text

Description automatically generated**

**Chart, histogram

Description automatically generated**

**File B**

**Text

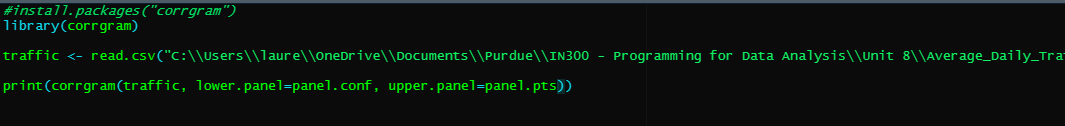
Description automatically generated**

**Chart, scatter chart

Description automatically generated**

**R Code and Results**

**File A**

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**Graphical user interface

Description automatically generated**

**File B**

**A screenshot of a computer

Description automatically generated**

**Chart

Description automatically generated**

**Java Code and Results**

**File A**

**Text

Description automatically generated with low confidence**

**Graphical user interface, text

Description automatically generated**

**Chart, bar chart

Description automatically generated**

**File B**

**Graphical user interface, text, application

Description automatically generatedChart, scatter chart

Description automatically generated**

**Compare and Contrast Languages**

The act of reading data and displaying it is different across each language. Java continues to find new ways to annoy me. The proper JDK for Java FX was not installed and Oracle will not let someone download it without an account. The amount of code to do the same thing as Python or R is orders of magnitude larger.

R used significantly less lines of code than Python this time around. This appears to be because R will read the column names into the data frame by default. Python required that each column name be added to an array first. R’s libraries were easy to use as well. I preferred using R for this project.