Do your work in Jupyter Python and screenshot your code with answers and paste the codes/answers below each question in this word document.

Submit both the word document and Python file. Include your name towards the end of this file name. For example: STAT L3 In-Class\_Exercise\_Neba\_Nfonsang

1. Read in the data STATL3Nuts.csv. View the first 5 rows. Remove the first column that has the index values 0, 1, 2,….View the first 5 rows.

**Insert a screenshot of your code and output.**

1. Add a new column for Price. Pistachios are 10.50, Walnuts are 8.75 and Cashews are 9.25. View the first 5 rows.

**Insert a screenshot of your code and output.**

1. Add a new column Total which is Price \* Quantity. View the first 5 rows.

**Insert a screenshot of your code and output.**

1. Display means of Quantity by Location using groupby

**Insert a screenshot of your code and output.**

1. Display means of Total by Type using groupby

**Insert a screenshot of your code and output.**

1. Create a well-labeled barplot of means of Quantity by Type using groupby

**Insert a screenshot of your code and output.**

1. Display min, max, and mean for Quantity and Total by Location using groupby and .agg

**Insert a screenshot of your code and output.**

1. Use Pivot Tables to group the data with rows as Location and columns as Type.

**Insert a screenshot of your code and output.**

1. Now create a similar table but display the standard deviation values instead of the mean.

**Insert a screenshot of your code and output.**

1. Create a crosstab with columns Location and Rows Type. Include the All column and row.

**Insert a screenshot of your code and output.**