Assignment #2

Part 1: Portland Crime

- 1. Read in the csv (**portland_crime_incident_data2017.csv**) using Pandas and return first 7 rows of the data out the DataFrame that is returned.
- 2. Get a count of rows within the DataFrame in order to determine if there are any null values.
- 3. Drop the rows which contain null values.
- 4. Search through the "Offense Type" column and "replace" any similar values with one consistent value.

Part 2:

- 1. Provide numpy code that calculates and prints each of the quantities below.
 - BA
 - \bullet AB^T
 - *Ay*
 - $y^T z$ (T represents transpose)
 - $\bullet yz^T$

where

$$B = \begin{bmatrix} 1 & 2 & -3 \\ 3 & 4 & -1 \end{bmatrix}, \quad A = \begin{bmatrix} 2 & -5 & 1 \\ 1 & 4 & 5 \\ 2 & -1 & 6 \end{bmatrix}, \quad y = \begin{bmatrix} 2 \\ -4 \\ 1 \end{bmatrix}, \quad y = \begin{bmatrix} -15 \\ -8 \\ -22 \end{bmatrix}$$

Submission

Upload only your .ipynb file on course site. Please save the file using the usual file naming format.