

## **Numpy and Pandas Questions**

For the questions below, create your own arrays with the different numpy array creation functions.

1. Create a null vector of size 10
2. Create a null vector of size 10 but the fifth value which is 1
3. Create a 3x3 matrix with values ranging from 0 to 8
4. Create a 3x3x3 array with random values
5. Multiply a 5x3 matrix by a 3x2 matrix (real matrix product)
6. Create a 5x5 matrix with row values ranging from 0 to 4
7. Subtract the mean of each row of a matrix
8. How to get the diagonal of a dot product?
9. How to find the most frequent value in an array?
10. Create a random vector of size 10 and sort it

# Pandas

Download the csv file from the [location](#) and write code do to the following questions.

Import the Dataset (Hint : It's a tsv file)

1. Assign it to a variable called chipo.
2. See the first 10 entries
3. What is the number of observations in the dataset?
4. What is the number of columns in the dataset?
5. Print the name of all the columns.
6. How is the dataset indexed?
7. Which was the most-ordered item?
8. For the most-ordered item, how many items were ordered?
9. What was the most ordered item in the choice\_description column?
10. How many items were orderd in total?
11. Turn the item price into a float
12. Check the item price type
13. How much was the revenue for the period in the dataset?
14. How many different items are sold?
15. How many orders were made in the period?
16. What is the average amount per order?