**Lab 6**

**Objectives**

* Import data and process data using python
* Identify unique items in the transactions
* Calculate the frequency of each item in the transaction.
* Find combination of the items.

1. Download the dataset (please download the .csv format). Here is the access: <https://docs.google.com/spreadsheets/d/1YMr22freDoYS0N_jYLWkt278P5mgMh4gHBlTGWSgp50/edit?usp=sharing>
2. Create a function (called reader) to read the file and identify unique items.

Input: file directory

Output: list of unique names of the item and their frequency count (descending order based on the frequency count)

Example:

Apples (23)

Bananas (16)

Cheese (9)

…

…

…

1. (Optional) Generate the combination of top 6 frequent items.

Input: top 6 frequent items (A, B, C, D, E, F)

Output:

1. itemset: {A}, {B}, {C},{D},{E}, {F}
2. itemset: {A, B}, {A, C}……
3. itemset: ….
4. Itemset: …
5. Itemset: ….
6. Itemset: …..