Lab Exercise – 8: Functions related to Apriori Algorithm

NOTE:

- * Prepare a PDF document and name the file as "Lab8 RegisterNo.pdf".
- * PDF file should consist Question No, Code, and Result for each Question.
- * File Should be headed with your Register number, Slot number, Lab Exercise number.
- 1. Develop a python function to return count of each set in the list of element sets.

2. Develop a python function to perform self-join operation on a set of items (of size k) to yield unique set of items of size(k+1).

Input:
$$((a,b),(a,c),(b,c),(b,d),(c,d),(c,e),(c,f))$$

Output: $((a,b,c),(b,c,d),(c,d,e),(c,d,f),(c,e,f))$

Note: It should not generate (c,d,e,f) since given k=2. we should generate sets of k=3 but not k=4.

3. Develop a python function to generate nonempty subsets for a given list of items.

```
Input:[a,b,c]
Ouput:[(a),(b),(c),(a,b),(a,c),(b,c)]
```

4. Use mlxtend/apyori package to apply Apriori algorithm on following transactions: