**Web Mining (CSE3024)**

**Lab Assignment 9**

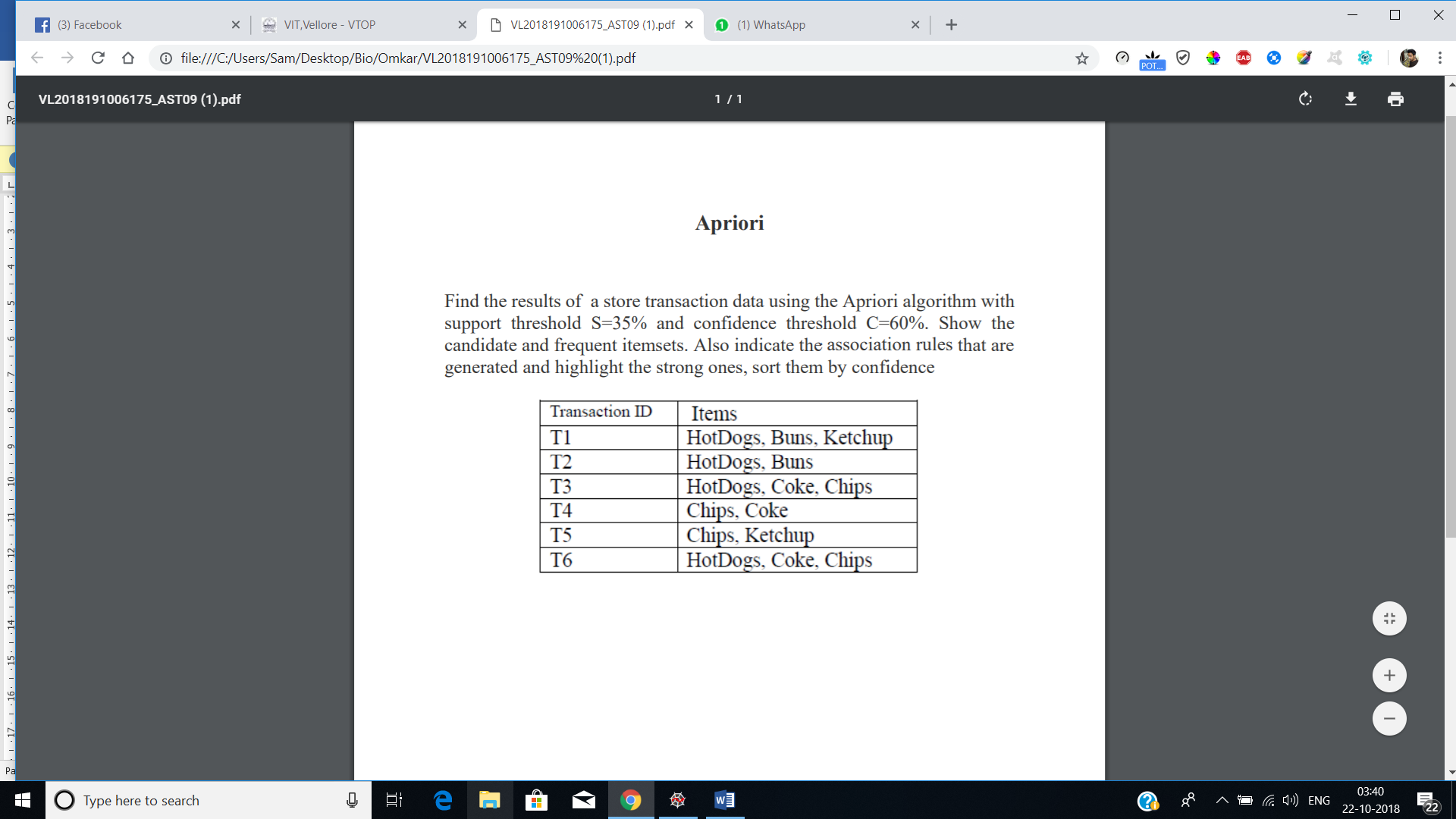
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Registration Number: **16BCI0041**

Slot: L15+L16

Date: 23rd October 2018

Question:



Code:

import numpy as np

import matplotlib.pyplot as plt

import pandas as pd

from apyori import apriori

dataset = [['HotDogs','Buns','Ketchup'],['HotDogs','Buns'],['HotDogs','Coke','Chips'],['Chips','Coke'],['Chips','Ketchup'],['HotDogs','Coke','Chips']]

print("Given Dataset:")

print('--------------------------')

for i in dataset:

for j in i:

print(j + ' | ', end="")

print('\n--------------------------')

ar = apriori(dataset, min\_support=0.35, min\_confidence=0.6, min\_lift=1, max\_length=3)

result = list(ar)

lofr = len(result)

finalres=[]

for i in result:

for j in i[2]:

finalres.append([j,i[1]])

finalres.reverse()

print("\n\n")

for i in finalres:

p = i[0]

item=[ x for x in p]

if(len(item[0])>0):

x1, \*\_ = item[0]

else:

x1="Null"

if(len(item[1])>0):

x2, \*\_ = item[1]

else:

x2="Null"

print('\n\n--------------------------------')

print("Association rule: " + x1 + " -> " + x2 )

print("Confidence: " + str(i[0][2]))

print("Support: " + str(i[1]))

print("Lift: " + str(i[0][3]))

print('--------------------------------')

print()

Output:

