1) Eclat

```
transactions = [ ['beer', 'wine', 'cheese'], ……]
import pandas as pd
data = pd.DataFrame(transactions)
data

min_n_products = 2
min_support = 7/len(transactions)
max_length = max([len(x) for x in transactions])

from pyECLAT import ECLAT
my_eclat = ECLAT(data=data, verbose=True)
rule_indices, rule_supports = my_eclat.fit(min_support=min_support,
                                min_combination=min_n_products,
                                max_combination=max_length)

print(rule_supports)
```

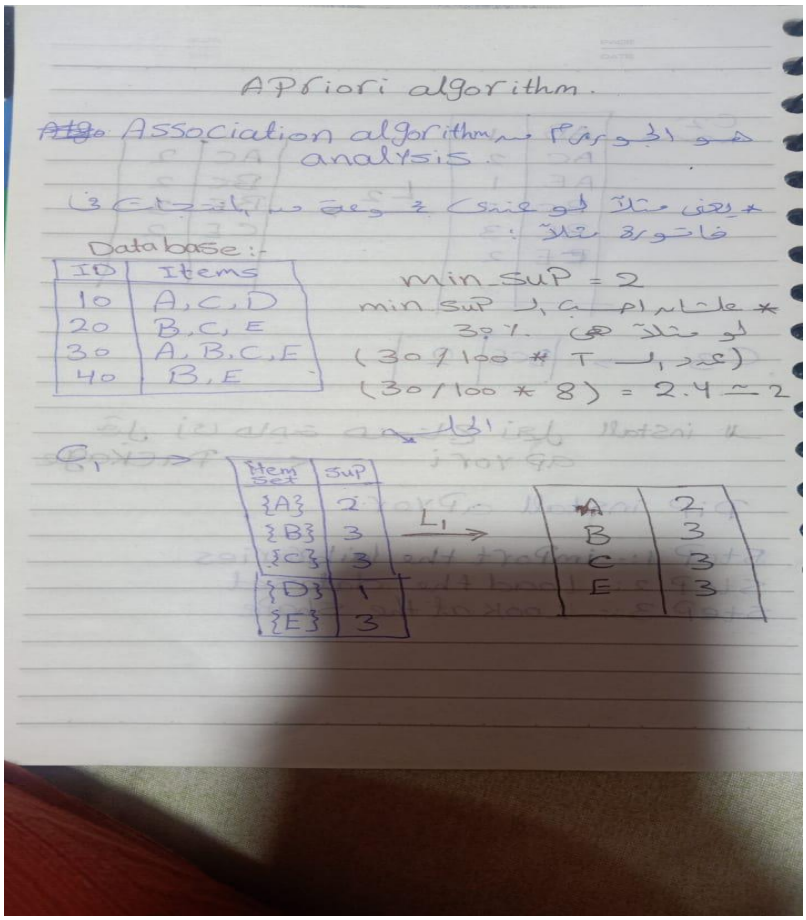
2) Apriori

```
import pandas as pd
dataset = [['A','C','D'], …..]
from mlxtend.preprocessing import TransactionEncoder
dst = TransactionEncoder()       # object from TransactionEncoder

dst_ary = dst.fit(dataset).transform(dataset)   # Fit data after Encoder
df = pd.DataFrame(dst_ary,columns = dst.columns_) # Make dataset in
Data Frame
print(df.head())

from mlxtend.frequent_patterns import apriori
frequent_items = apriori (df=df , min_support=.6 ,use_colnames = True )

print(frequent_items)
```

3) Fpgrowth

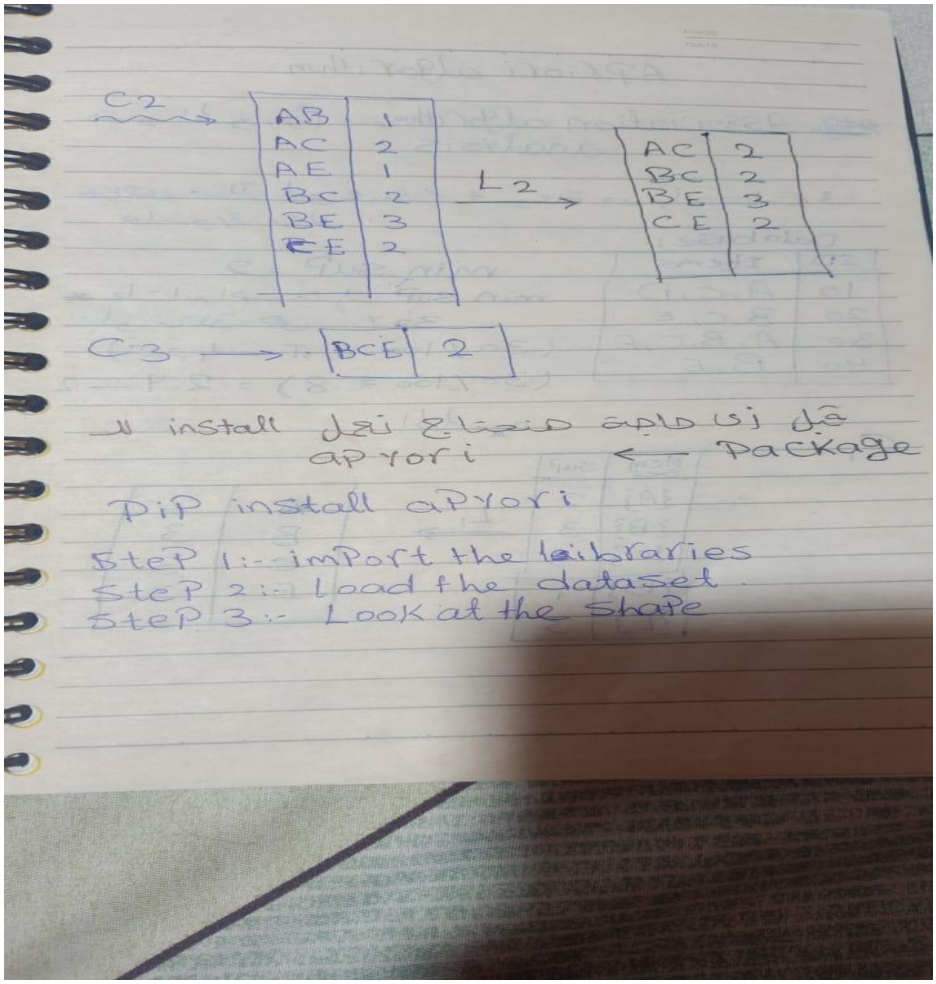
```
import pandas as pd
from mlxtend.preprocessing import TransactionEncoder
dst = TransactionEncoder()
dst_ary = dst.fit(dataset).transform(dataset)
df = pd.DataFrame(dst_ary,columns = dst.columns_)
print(df.head())
```

```
from mlxtend.frequent_patterns import fpgrowth
frequent_items = fpgrowth(df=df,min_support=.6,use_colnames=True)

print(frequent_items)
```



4)

5)


C2
AB 1
AC 2
AE 1
BC 2
BE 3
CE 2
L2
AC 2
BC 2
BE 3
CE 2
C3
BCE 2
install
apyori
Package
Pip install apyori
Step 1:- import the libraries
Step 2:- load the dataset
Step 3:- Look at the shape