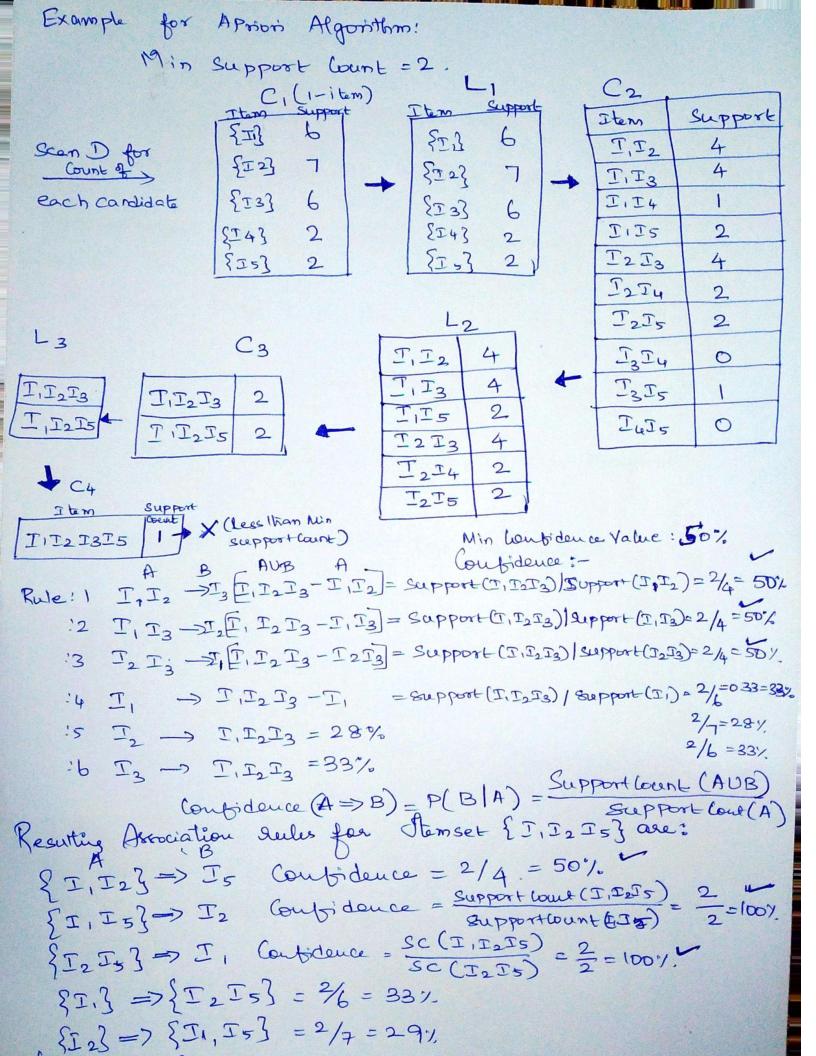
ALGORITHM

TL GIORIT	ЪM
TI 1,3,4  T2 2,3,5  T3 1,2,3,5  T4 2,5  T5 1,3,5  T5 1,3,5	Min. Support Count = 2  mset)  LI  Ttem Support  {1} 3  {2} 3  {3} 4
$ \begin{array}{c c} C_2 & (2-itemset) \\ \{1,2\} \\ \{1,3\} \\ \{1,4\} \\ 2 \\ \{2,3\} \\ 2 \\ \{2,5\} \\ 3 \\ \{3,5\} \\ 3 \end{array} $ $ \begin{array}{c} Pruning \end{array} $ $ \begin{array}{c} C_3 & (8-itemset) \end{array} $	$       \begin{cases}             1,3 \\             3             \\         $
$\{1,2,3\}\{1,2\}\{1,3\}\{2,3\}\}$ No $\{1,2,5\}\{1,2\}\{1,3\}\{2,5\}\}$ No $\{1,3,5\}\{1,3\}\{3,5\}\{1,3\}\}$ des $\{2,3,5\}\{2,5\}\{3,5\}\}$ des	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
C4 (4-Itemset) {1,2,3,5}	[ {1,2,3,5}

Rule framing: Subset-S Itemset Support
\$1,3,5} 2
{2,3,5} 2 for I = {1,3,5}, Subsete are {1,3}{1,5}{3,5} {1,3{3}{5} for I = {2,3,5}, subsets are {2,3}{2,53,23,5} {2}{3}{5} for energenbent S q I, output the rule: S -> (1-S) (S recommends I-S) if Suppose (I) / Support (s) > = min\_confidence Value. Applying rules: Min-Confédence Value = 60% Rule 1: {1,3} -> ({1,3,5}-{1,3}) Confidence = support (1,3,5) /support(1,3) = 2/3 = 66.667. > 60% Rule 2: {1,5} ({1,3,5} - {1,5}) Confidence = Support (1,3,5) / Support (1,5) = 2/2 = 100% > 60% V Rule 8: {3,5}-> ({1,3,5}-{3,5}) Confidence = Support (1,3,5) /support (3,5) = 2/3=66.66%, ≥60% V Rule 4: {13 -> (21,3,53- {13) Confidence = Support (1,3,5) / Support (1) =2/3=66.661. >601. Rule 5: { 33 -> ( {1,3,53 - {233}) Confidence = Support (1,3,5)/support (3) = 2/4 = 50%, < 60% ×

Findanlise fraquent item sets using Aprior algorithm Where the Min. supposet Court is 2 is the followingstone.

* I want to be a second of the	
TID	List gitems.
T100	II, I2, I5
T200	I2, I4
T300	I <sub>2</sub> ,I <sub>3</sub>
T400	I, I2, I4
T500	I, I3
Too	$\mathbb{T}_2 \mathbb{T}_3$
7700	I, I3
T800	I, N2, I3, Is
T900	$T_1, T_2, T_3$



Framing the Rules:

Rule: I (I.I.5)

If instance buys (I.T.) then customer buys I.3.

Rule: 2

To austomer buys (I.I.3) then austomer buys I.2

Rule: 3

To austomer buys (I.I.3) then austomer buys I.

Rule: 4

To austomer buys I.I.2 then I.5 is also bought

Rule: 5

To austomer buys I.I.5 then I.2 is also bought

Rule: 6

To austomer buys I.I.5 then I.3 is also bought

Reale: 6

I. Ceutomer buys I.I.5 then I.1 is also bought

Rule: 7

To Customer buys Is then Customer also buys I, & I'2