```
11,12,15
12,14
12,13
11,12,14
11,13
12,13
11,13
11,12,13,15
11,12,13
Min_support = 2 & Min_confidence = 60%
Aprioiri Alogorithm:
C1:candidate 1-Itemset
I1-6
12-7
I3-6
14-2
15-2
L1 Itemset: 1-Frequent itemset Rule>=Min_support(2)
I1-6
12-7
I3-6
14-2
15-2
C2-candidate 2-Itemset(Will be generated from L1)
{11,12}-4
{11,13}-4
\{11,14\}-1 x
{11,15}-2
{12,13}-4
{12,14}-2
{12,15}-2
\{13,14\}-0 x
\{13,15\}-1 x
\{14,15\}-0 x
L2 Itemset: 2-Frequent itemset Rule C2>=Min_support(2)
{11,12}-4
{I1,I3}-4
{11,15}-2
\{12,13\}-4
{12,14}-2
{12,15}-2
Aprioiri Property:
\{I1,I2,I3\} - \{(I1,I2),(I1,I3),(I2,I3),(I1),(I2),(I3)\}
\{I1,I2,I5\}-\{(I1,I2),(I1,I5),(I2,I5),(I1),(I2),(I5)\}
\{11,13,15\}-\{(11,13),(11,15),(13,15),(11),(13),(15)\} X
```

```
\{12,13,14\}-\{(12,13),(12,14),(13,14),(12),(13),(14)\} X
\{12,13,15\}-\{(12,13),(12,15),(13,15),(12),(13),(15)\}\ X
\{12,14,15\}-\{(12,14),(12,15),(14,15),(12),(14),(15)\}\ X
C3-candidate 3-Itemset(Will be generated from L2)
\{11,12,13\} -2
\{11,12,15\} -2
L3 Itemset: 3-Frequent itemset Rule C3>=Min_support(2)
{11,12,13}-2
{11,12,15}-2
Aprioiri Property:
\{11,12,13,15\}-\{(11,12,13),(11,13,15),(11,12,15),(12,13,15),(11,12),(11,13),(11,15),(12,13),(12,15),(13,15),(11),(12),(13),(15)\}
Χ
CANT GENERATE C4
Association Rule/Strong Rule
confidence = supp(x u y) / supp(x)
Rule1: {I1,I2,I3}
\{11,12,13\} -(11,12),(11,13),(12,13),(11),(12),(13)\}
(11 ^ 12) => 13 = 2/4 = 50\%
11 ^ 13 => 12 = 2/4 = 50\%
12 ^ 13 => 11 = 2/4 = 50\%
I3 =>I1 ^ I2 =2/6=30%
I2 =>I1 ^ I3 =2/7=22%
I1 =>I2 ^ I3 =2/6=30%
Rule2: {I1,I2,I5}
I1 => I2,I5 =2/6 =30%
I1, I2=>I5 =2/4=50%
12,15 \Rightarrow 11 = 2/2 = 100\%
FP-Tree Algorithm:
11,12,15
12,14
12,13
11,12,14
11,13
12,13
11,13
11,12,13,15
```

11,12,13

Min_support =2 & Min_confidence=60%

L1:Frequent 1-Itemset

I1-6

12-7

I3-6

14-2

15-2

L-order List:

12-7

I1-6

I3-6

I4-2

15-2

Rearange the transaction based on L-order

12,11,15

12,14

12,13

12,11,14

11,13

12,13

11,13

12,11,13,15

12,11,13