

```
transactions=[['eggs','milk','bread'],['eggs','apple'],['milk','bread'],['apple','milk'],['milk','apple','bread']]
```

```
item_to_num={'eggs':1,'milk':2,'bread':3,'apple':4}
```

```
numeric_transactions=[]
```

```
for transaction in transactions:
```

```
    numeric_transaction=[item_to_num[item]for item in transaction ]
```

```
    Numeric_transactions.append(numeric_transaction)
```

```
print(numeric_transactions)
```

```
from mlxtend.frequent_patterns import apriori,association_rules
```

```
frequent_itemsets=apriori(numeric_transactions,min_support=0.4,use_colnames=True)
```

```
rules=association_rules(frequent_itemsets,metric="confidence",min_threshold=0.7)
```

```
print(frequent_itemsets)
```

```
print(rules)
```