Task 1 – Frequent Itemsets (min support = 60%)

Total transactions: 5 → minimum support count = 3

Frequent 1-itemsets

- {Mango} – 3
- {Onion} – 3
- {Key-chain} – 5
- {Eggs} – 4
- {Yo-yo} – 3

Frequent 2-itemsets

- {Mango, Key-chain} – 3
- {Onion, Key-chain} – 3
- {Onion, Eggs} – 3
- {Key-chain, Eggs} – 4
- {Key-chain, Yo-yo} – 3

Frequent 3-itemsets

- {Onion, Key-chain, Eggs} – 3

Task 2 – Strong Association Rules (min confidence = 80%)

Rules from 2-itemsets

- Mango → Key-chain
- Onion → Key-chain
- Onion → Eggs
- Key-chain → Eggs
- Eggs → Key-chain
- Yo-yo → Key-chain

(All have confidence ≥ 80%)

Rules from 3-itemset

- {Onion, Key-chain} → Eggs
- {Onion, Eggs} → Key-chain
- Onion → {Key-chain, Eggs}

(All have confidence ≥ 80%)