# Lab 7: FP-Growth

## PART 1:

**Question No. 1 to 2**: Construct/Draw the Final FP-Tree on your paper. If two transactions are tied, follow the alphabetical ordering.

| Transactions | Items |
|---|---|
| T1 | [A, B, C] |
| T2 | [B, A, D, E] |
| T3 | [A, D, E] |
| T4 | [A, B, D] |
| T5 | [B, E] |
| T6 | [A, B, E, F] |
| T7 | [A, C, D] |

**Question No. 3 to 5:** Identify at least 3 Frequent Patterns for **Node D**, including Support values (Sample answer: {E, F}, support is 5)

| Frequent Patterns for Node D | |
|---|---|
| **Pattern** | **Support** |
| | |
| | |
| | |

**Question No. 6 to 8:** Identify at least 3 Frequent Patterns for **Node E**, including Support values (Sample answer: {E, F}, support is 5)

| Frequent Patterns for Node E | |
|---|---|
| Pattern | Support |
| | |
| | |
| | |
| | |
| | |

**PART 2:**
**Answer the following questions using the data "loan_approval.csv" and process the Association Rule Mining using FP-Growth with min_support = 0.1 & min_threshold = 0.1**

**9. What is the most pressing association rule for the loan approval?**
**10. What is the most pressing association rule for the loan disapproval?**