6CE2-A Batch

SET–A

Part-A: String Validation Using Finite Automata

Objective:
Design and implement a DFA to validate input strings based on specified rules.

Test Cases:

1. String over {0,1} having **even length**.

2. String over {a,b} that must **contain substring "ab"**.

Part-B: Lex Programs

Objective-1:
Write a Lex program to identify and count all **vowels** in the input.

Sample Input:
Compiler Design

Expected Output:
Total Vowels: 6

Objective-2:
Write a Lex program to remove all **digits** from the input text.

Sample Input:
Lab123 Session45

Expected Output:
Lab Session