

Experiment 5

Objective: To implement a flex programme to generate strings for the regular expressions.

Brief Theory: Consider the following regular expressions:

- a) $(a + b)^* a (a + b)$
- b) $((a + b)^* (c + d)^*)^+ + ab^* c^* d$
- c) $(0 + 1)^* + 0^* 1^*$
- d) $(01^* 2 + 0^* 2 + 1)^+$
- e) $(0 + 1)^* 0 (0 + 1) (0 + 1)$

Task: Write flex programs for above regular expressions mentioned above.

Apparatus and components required: Computer with C or C++ Compiler, Flex, Bison (YACC) and Windows operating platform.

Experimental/numerical procedure: Coding, compilation, editing, run and debugging.