# Program 4

Design a lexical Analyzer to validate operators to recognize the operators +,-,\*,/ using regular arithmetic operators using C

#include <stdio.h>

#include <stdlib.h>

#include <string.h>

#include <ctype.h>

#define MAX\_LEN 100

void lexicalAnalyzer(const char \*input) {

for (int i = 0; i < strlen(input); i++) {

if (isspace(input[i])) {

continue;

}

if (input[i] == '+' || input[i] == '-' || input[i] == '\*' || input[i] == '/') {

printf("Operator: %c\n", input[i]);

} else {

printf("Invalid character: %c\n", input[i]);

}

}

}

int main() {

char input[MAX\_LEN];

printf("Enter an expression: ");

fgets(input, MAX\_LEN, stdin);

lexicalAnalyzer(input);

return 0;

}

