Lab Program - 4

V Pranav - 192311029

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

**Code:**

#include <stdio.h>

#include <ctype.h>

// Function to check if a character is a valid operator

int isOperator(char ch) {

return (ch == '+' || ch == '-' || ch == '\*' || ch == '/');

}

int main() {

char input[100];

printf("Enter an expression: ");

scanf("%s", input);

printf("Recognized Operators: ");

for (int i = 0; input[i] != '\0'; i++) {

if (isOperator(input[i])) {

printf("%c ", input[i]);

}

}

printf("\n");

return 0;

}

**Screenshot for I/O:**

