**PROGRAM 3:-**

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

CODE:-

#include <stdio.h>

void identifyOperator(char ch) {

switch (ch) {

case '+': printf("Valid Operator: Addition (+)\n"); break;

case '-': printf("Valid Operator: Subtraction (-)\n"); break;

case '\*': printf("Valid Operator: Multiplication (\*)\n"); break;

case '/': printf("Valid Operator: Division (/)\n"); break;

default: printf("Invalid Operator: %c\n", ch);

}

}

int main() {

char input;

printf("Enter a character: ");

scanf(" %c", &input); // Space before %c to ignore whitespaces

identifyOperator(input);

return 0;

}

OUTPUT:-

