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

#include<stdio.h>

int main()

{

char input[10];

printf("enter the operator");

gets(input);

switch (input[0])

{

case '>':

if(input[1]=='=')

printf("greater thean equal");

else

printf("greater");

break;

case '<':

if(input[1]=='=')

printf("less thean equal");

else

printf("less");

break;

case '!':

if(input[1]=='=')

printf("not equal");

else

printf("bitwise not");

break;

case '&':

if(input[1]=='&')

printf("logical and");

else

printf("bitwise and");

break;

case '|':

if(input[1]=='|')

printf("logical or");

else

printf("bitwise or");

break;

case '+':

printf("addition");

break;

case '-':

printf("subtraction");

break;

case '\*':

printf("multiplication");

break;

case '/':

printf("division");

break;

default:

printf("not an operator");

}

return 0;

}

OUTPUT

