INSTITUTE OF ENGINEERING & MANAGEMENT



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ASSIGNMENT OF DEPARTMENT	: Compiler Design Lab
MTE OF EXPERIMENT /	: 12/04/2022
PROJECT	
NATE OF SUBMISSION	:

TLE

: C program to Simulate Lexical analyzer for validation

BJECT

: To write a c program to simulate lexical analyzer for validating operators.

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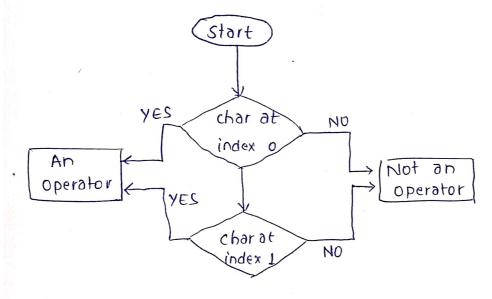
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Objective - To Write a c program to analyzer for validating operators Simulate lexical

Resource: Online GDB, gcc/9++

Program logic & Procedure:

- First read the given input.
- If the given input matches with any of the operator symbol then it will display in terms of words of the particular symbol.
- Else it will print not an operator.



Program: -

```
# include < stdio.h>
# include < conio.h>
int main() {
            char str[5];
            printf ("In Enter any operator: ");
            Scanf ("Y.S", Str);
            Switch (str[o]) {
                      case '>':
                             if (str[] == '=')
```

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```
printf (" In Greater than or equal to ");
    else
       printf (" In Greater than");
       break;
case 'c' :
         if (str[1] = = '= ')
      printf (" Less than or equal to");
        else
        printf ("In Less than");
        break;
case '=' :
          if ( Str[i] = = '=')
          printf ("In Equal to");
            printf (" In Assignment");
          break;
  (ase '!' : if (str[1] = = '=')
             printf ("In Not equal");
             else
               printf ("In Bit not");
             break;
    case '1':
              if (str[i] == '1')
              printf ("In Logical or");
              else
                  printf ("In Bitwise or");
               break',
     Case 1+1:
               printf (" In Addition");
               break ',
                 printf (in substraction");
                break;
```

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cose '*
```

```
printf ("In Multiplication");
        break',
case '/'
         printf ("In Division");
        break;
 case "x":
          printf ("In Modulus");
       break;
  defauit :
          printf ("In Not an operator");
     return 0;
```

Output ?

Enter any operator: * => Multiplication Enter any operator: == =) Equal to Enter any operator: != => Not Equal to

Discussion:

For the above mentioned problem statement, I Used the switch case method to solve the problem Where I firstly taken an input string then I given the switch case, so that if there will be any matching operator found at oth & 1st index then it will return the operator in terms of words of that particular symbol or If there is no operator found. It will print Not an operator.