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/********************
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Sub
   : CCL
PRN : 1641060
Class: L.Y. Computer
Batch: B1
Aim : Write a C program to simulate lexical analyzer for validating
operators.
************************
#include<stdio.h>
int main()
     char s[10];
     int c;
     do
     printf("Enter any operator:");
     scanf("%s",s);
     switch(s[0])
          case '<':if(s[1]=='=')
                    printf("\nless than or equal\n");
               else
                    printf("\nless than");
               break;
          case '>':if(s[1]=='=')
                    printf("\ngreater than or equal");
               else
                    printf("\ngreater than");
               break;
          case '+':if(s[1]=='+')
                    printf("\nunary increament operator");
               else
                    printf("\nadd is an binary arithmatic operator");
               break;
          case '-':if(s[1]=='-')
                    printf("\nunary decreament operator");
                    printf("\nminus is an binary arithmatic
operator");
               break;
          case '/':if(s[1]=='*')
                    printf("\nit is not an operator");
               else
                    printf("\ndivision is an binary arithmatic
operator");
               break;
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case '*':printf("\nmultiplication is an binary arithmatic
operator");
               break;
          case '%':printf("\nmodulus is an arithmatic operator");
          case '!':if(s[1]=='=')
                     printf("\nnot equal");
               else
                     printf("\nbit not");
               break;
          case '=':if(s[1]=='=')
                     printf("\nit is an comparison operator");
                     printf("\nassignment operator");
               break;
          case '&':if(s[1]=='&')
                     printf("\nlogical AND");
               else
                     printf("\nBitwise AND");
               break;
          case '|':if(s[1]=='|')
                     printf("\nlogical OR");
               else
                     printf("\nBitwise OR");
               break;
          case '~':printf("\nnegation operator");
          case '?':if(s[1] == ':')
                     printf("\nternary oprator is an unary oprator");
               else
                     printf("\nnot an oprator");
               break;
          default:printf("\nInvalid input!!");
               break;
     }
     printf("\nDo you want to continue 1/0\n");
          scanf("%d",&c);
     }
     while (c==1);
     return(0);
}
shubh@ubuntu:~/CCL$ qcc cc4.c
shubh@ubuntu:~/CCL$ ./a.out
Enter any operator:+
add is an binary arithmatic operator
Do you want to continue 1/0
```

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Enter any operator:-
minus is an binary arithmatic operator
Do you want to continue 1/0
Enter any operator:>
greater than
Do you want to continue 1/0
Enter any operator:<</pre>
less than
Do you want to continue 1/0
Enter any operator:=
assignment operator
Do you want to continue 1/0
Enter any operator:/
division is an binary arithmatic operator
Do you want to continue 1/0
Enter any operator:*
multiplication is an binary arithmatic operator
Do you want to continue 1/0
Enter any operator:<=</pre>
less than or equal
Do you want to continue 1/0
Enter any operator:>=
greater than or equal
Do you want to continue 1/0
shubh@ubuntu:~/CCL$
***********************
```