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1.Develop a lexical Analyzer to identify identifiers, constants, operators using C program.
#include <stdio.h>
#include <ctype.h>
#include <string.h>
#define MAX_LENGTH 100
const char operators[] = "+-*/%=";
int isOperator(char c) {
  int i;
  for (i = 0; i < strlen(operators); i++) {
    if (c == operators[i]) {
      return 1;
    }
  }
  return 0;
}
int main() {
  char input[MAX_LENGTH];
  int i = 0, length;
  printf("Enter an expression: ");
  scanf("%s", input);
  length = strlen(input);
  while (i < length) {
    if (isalpha(input[i])) {
       printf("Identifier: ");
```

while (isalpha(input[i])) {

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printf("%c", input[i]);
         i++;
       }
       printf("\n");
    } else if (isdigit(input[i])) {
       printf("Constant: ");
       while (isdigit(input[i])) {
         printf("%c", input[i]);
         i++;
       }
       printf("\n");
    } else if (isOperator(input[i])) {
       printf("Operator: %c\n", input[i]);
       i++;
    } else {
       i++;
    }
  }
  return 0;
}
```

and C. Justis Januar Justician Jewican analysis using rotation seek	0 ^
Enter an expression: a=b*c/-+	
Identifier: a	
According to the Control of the Cont	
operator: =	
Operator: = Identifier: b	
Operator: * Identifier: c	
Idantifian c	
Avental service	
Operator: /	
Operator: -	
Operator: +	
Process exited after 24.08 seconds with return value 0	
Press any key to continue	