**/\* Program No.:**

**Aim: WAP to count the number of operators, identifiers, (), {} and [] in an**

**expression and display the same.**

**\*/**

#include<stdio.h>

#include<string.h>

#include<conio.h>

void main()

{

clrscr();

char \*string;

int op=0,iden=0,count\_b=0,count\_c=0,count\_s=0;

printf("\n\tEnter the expression: ");

gets(string);

for(int i=0; i<strlen(string); i++)

{

switch(string[i])

{

case '+':

case '-':

case '\*':

case '/':

case '%':op++;break;

case '(':

case ')':count\_b++;break;

case '{':

case '}':count\_c++;break;

case '[':

case ']':count\_s++;break;

default:iden++;break;

}

}

if(op!=0)

printf("\n\n\t\tNo. of Operators: %d",op);

if(iden!=0)

printf("\n\t\tNo. of identifiers: %d",iden);

if(count\_b!=0)

printf("\n\t\tNo. of '(': %d",count\_b/2);

if(count\_c!=0)

printf("\n\t\tNo. of '{': %d",count\_c/2);

if(count\_s!=0)

printf("\n\t\tNo. of '[': %d",count\_s/2);

getch();

}

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**Name - Rohit Aggarwal**

**Roll No. - 7CS-097**

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