**ASSIGNMENT NO.**

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CLASS: BE COMP-1 ROLL NO.: 402055

**PROGRAM:**

#include <iostream>

#include <stdlib.h>

#include <stdio.h>

#include <string.h>

using namespace std;

int i;

bool check;

void E(char \*string);

void E1(char \*string);

void T(char \*string);

void T1(char \*string);

void F(char \*string);

void advance();

int main()

{

char string[20];

i = 0;

check = true;

cout << "Enter the String" << endl;

cin >> string;

E(string);

if(string[i] == '\0' && check)

cout << "correct String" << endl;

else

cout << "Incorrect String" << endl;

return 0;

}

void advance()

{

i++;

};

void E(char \*string)

{

T(string);

E1(string);

};

void E1(char \*string)

{

if(string[i] == '+')

{

advance();

T(string);

E1(string);

}

};

void T(char \*string)

{

F(string);

T1(string);

};

void T1(char \*string)

{

if(string[i] == '\*')

{

advance();

F(string);

T1(string);

}

};

void F(char \*string)

{

if(string[i] == 'a')

advance();

else if(string[i] == '(')

{

advance();

E(string);

if(string[i] == ')')

advance();

else

check = false;

}

else

check = false;

};

**OUTPUT :**

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