**ASSIGNMENT NO.**

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CLASS : BE COMP 1 ROLL NO.:402006

PROGRAM:

#include<stdio.h>

#include<string.h>

char input[20];

int err=0;

int pos=0;

void E();

void T();

void Ed();

void E();

void Td();

void F();

void advance();

int main()

{

printf("Enter an arithmetic expression : ");

scanf("%s",input);

int n=strlen(input);

E();

if(pos==n && err==0)

{

printf("\nString Accepted..!\n");

}

else

{

printf("\nString Rejected..!\n");

}

}

void advance()

{

pos++;

}

void F()

{

if (input[pos]=='a')

{

advance();

}

else if(input[pos]=='(')

{

advance();

E();

if(input[pos]==')')

{

advance();

}

else

err=1;

}

else

err=1;

}

void E()

{

T();

Ed();

}

void T()

{

F();

Td();

}

void Ed()

{

if(input[pos]=='+')

{

advance();

T();

Ed();

}

}

void Td()

{

if(input[pos]=='\*')

{

advance();

F();

Td();

}

}