

```

#include <stdio.h>
#include <ctype.h>

int c;

void E();
void T();
void F();

int main()
{
    c=getchar();
    try{
        E();
        if (c=='\n')    printf("Syntax checked\n");
        else throw c;
    }
    catch(int ch) {printf("Unexpected lexeme %c \n", ch);}
    return 0;
}

void E(){
    T();
    while (c=='+' || c=='-') {
        c=getchar();
        T();
    }
}

void T(){
    F();
    while (c=='*' || c=='/') {
        c=getchar();
        F();
    }
}

void F(){
    if (isdigit(c)) c=getchar();
    else
        if (c=='-') {
            c=getchar();
            F();
        }
    else
        if (c=='(')
            {
                c=getchar();
                E();
                if (c==')') c=getchar();
                else throw c;
            }
        else
            throw c;
}

```

