

```
#include<stdio.h>
#include<ctype.h>
#include<string.h>
#define MAX 100
char stack[MAX];
int top = -1;
void push(char c)
{
    if(top== MAX-1)
    {
        printf("stack is full");
    }
    else

    {
        top=top+1;
        stack[top]= c;
    }
}
char pop()
{
    char val;
    if(top== -1)
    {
        printf("stack is empty");
        return -1;
    }
    else
    {
        val=stack[top];
        top=top-1;
    }
}
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        return val;
    }
}

char peek()
{
    if(top== -1)
        return '\0';
    return stack[top];
}

int precedence(char c)
{
    if (c == '+' || c == '-') return 1;
    if (c == '*' || c == '/') return 2;
    return 0;
}

void infixtopostfix(char infix[],char postfix[])
{
    int i,k=0;
    char c;
    for(i=0; infix[i] !='\0'; i++)
    {
        c=infix[i];

        if (isalnum(c))
        {
            postfix[k]=c;
            k=k+1;
        }
        else if (c == '(')
        {
            push(c);

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    }
    else if (c == '(')
    {
        while(top != -1 && peek() != '(')
        {
            postfix[k] = pop();
            k=k+1;
        }
        pop();
    } else
    {
        while(top != -1 && precedence(peek()) >= precedence(c))
        {
            postfix[k]=pop();
            k=k+1;
        }
        push(c);
    }
}

while(top != -1)
{
    postfix[k] = pop();
    k=k+1;

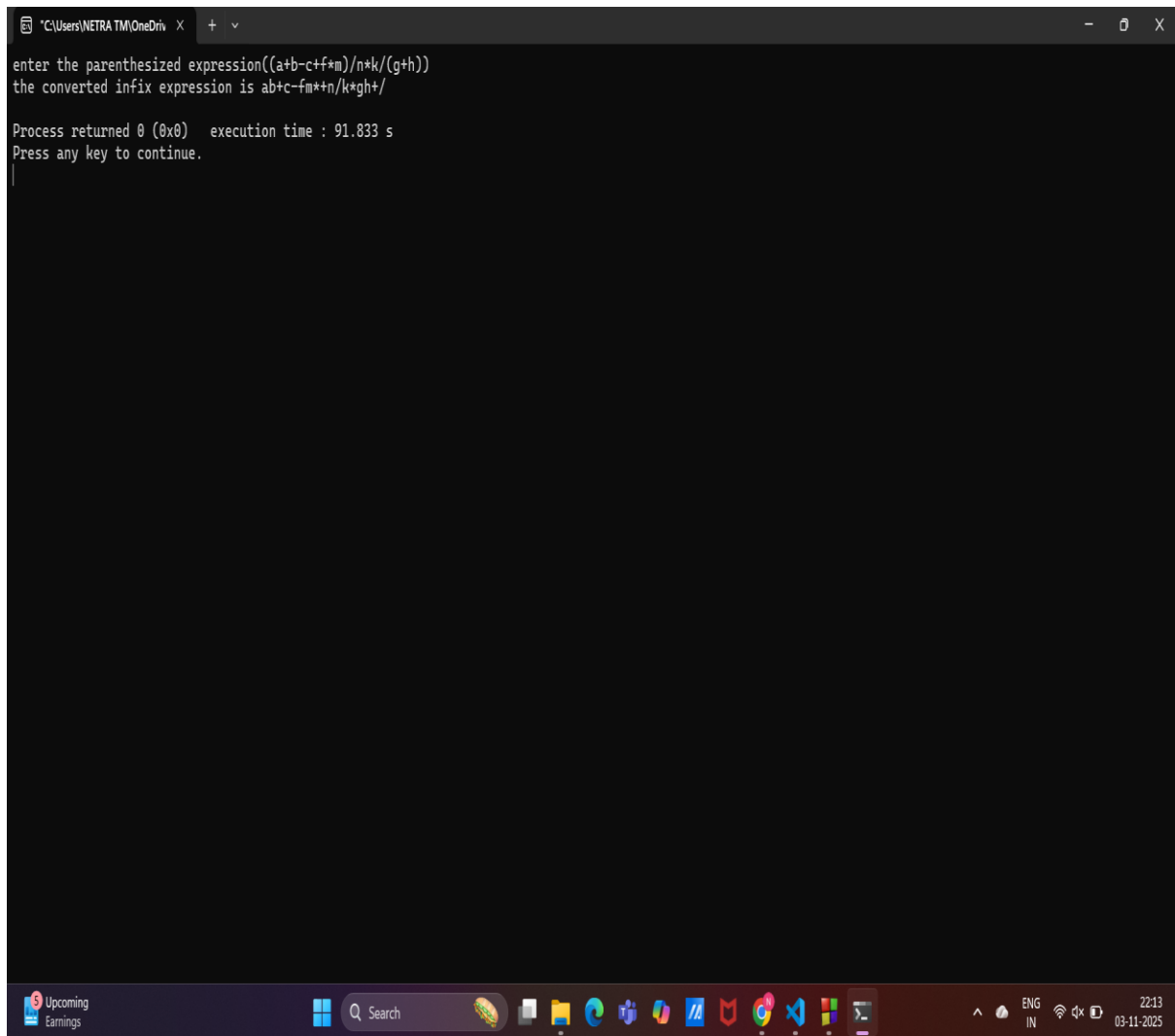
}

postfix[k]='\0';
}

int main()
{
    char infix[MAX], postfix[MAX];
    printf("enter the parenthesized expression");

```

```
scanf("%s", infix);  
  
infixtopostfix(infix, postfix);  
  
printf("the converted infix expression is %s \n", postfix);  
  
return 0 ;  
  
}
```



The screenshot shows a Windows terminal window with a dark background. The title bar at the top indicates the file path 'C:\Users\NETRA TM\OneDrive'. The terminal displays the following text:

```
enter the parenthesized expression((a+b-c+f*m)/n*k/(g+h))  
the converted infix expression is ab+c-fm**n/k*gh+/  
  
Process returned 0 (0x0)   execution time : 91.833 s  
Press any key to continue.
```

The Windows taskbar is visible at the bottom, showing the Start button, a search bar, and several application icons. The system tray on the right shows the language set to 'ENG IN', network and volume icons, and the date and time '22:13 03-11-2025'.