```cpp
/*----------------------------------------------------------------
------    19CE1071 A/A3 Rohan Hasabe
----------------------------------------------------------------
----*/
#include <bits/stdc++.h>

using namespace std;
int preceed(char c){

    if(c == '^')
        return 3;
    else if(c == '/' || c=='*')
        return 2;
    else if(c == '+' || c == '-')
        return 1;
    else
        return -1;


}
int main()
{
    cout<<"Enter expression:\n";
    string s;
    cin>>s;
    string s1="";
    stack<char> opn;
    for(int i=0;i<s.length();i++){
        if((s[i]>='a'&& s[i]<='z') || (s[i]>='A' && s[i]<='z') )
        s1+=s[i];
        else{
        while(!opn.empty() && (preceed(opn.top()) >= (preceed(s[i])))){
            s1+=opn.top();
            opn.pop();
        }
opn.push(s[i]);
```

```cpp
        }
}
while(!opn.empty()){
    s1+=opn.top();
    opn.pop();
}
//cout<<s1<<endl;
stack<char> eval;
int j;
char c1,c2;
cout<<"3 address code:\n";
for(j=0;j<s1.size();j++){
    if((s1[j]>='a'&& s1[j]<='z') || (s1[j]>='A' && s1[j]<='z') ){

        eval.push(s1[j]);
//cout<<eval.top()<<endl;
    }
        else{

            c1=eval.top();
            eval.pop();
            c2=eval.top();
            eval.pop();
            char p='A'+j-1;
            cout<<p<<"="<<c1<<s1[j]<<c2<<endl;

            //<<j<<endl;
                eval.push('A'+j-1);

        }
    }

    return 0;
}
```

```
PS D:\SEM6\spcc> cd "d:\SEM6\spcc\" ; if ($?) { g++ tempCodeRunnerFile.cpp -o tempCodeRunnerFile } ; if ($?) { .\tempCodeRunnerFile }
Enter expression:
a/b+c*d/f
3 address code:
B=b/a
E=d*c
G=f/E
H=G+B
PS D:\SEM6\spcc>
```