**Program :**

#include<bits/stdc++.h>

using namespace std;

string lex(string tok){

    vector<string> keywords = {"int","float","void","for","while","cout", "endl","string","return"};

    vector<string> opers = {"+","-","/","\*","=","?","<",">"};

    vector<string> nums = { "0","1","2","3","4","5","6","7","8","9"};

    if(find(keywords.begin(), keywords.end(), tok) != keywords.end())

        return "Keyword";

    else if(find(opers.begin(), opers.end(), tok) != opers.end())

        return "Operator";

    else if(find(nums.begin(), nums.end(), tok) != nums.end())

        return "Number";

    else

        return "Identifier";

}

int main()

{

    string s = "";

    while(s[s.size()-2] != '~'){

        string w;

        getline (cin, w);

        s.append(w);

        s.append("\n");

    }

    string word = "";

    cout<<"\n------- All the tokens are :\n";

    int i=0;

    while(i<s.size()-1){

        if(s[i] == ' ' || s[i] == '\n' || s[i] == '~'){

            cout<<"'"<<word<<"' is an "<<lex(word)<<endl;

            word.clear();

        }

        else if(s[i] == ';')

            cout<<"';' is a delimiter"<<endl;

        else

            word.push\_back(s[i]);

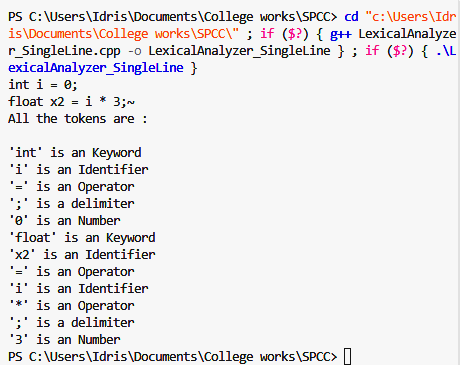
        i++;

    }

    return 0;

}

**Output :**

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