**RECURSION-DUPLICATE CHARACTER FORMATTING**

Take as input str, a string. Write a recursive function which returns a new string in which all duplicate consecutive characters are separated by a ‘ \* ’. E.g. for “hello” return “hel\*lo”. Print the value returned

**Input Format:**

Enter a String

**Constraints:**

None

**Output Format**

Display the resulting string (i.e after inserting (\*) b/w all the duplicate characters)

**Sample Input**

hello

**Sample Output**

hel\*lo

Program -

#include<iostream>

#include<cstring>

using namespace std;

void duplicate(string s,string &p,int i){

p=p+s[i];

if(i==s.length()-1){

return ;

}

if(s[i]==s[i+1])

{

p=p+'\*';

}

duplicate(s,p,i+1);

}

int main() {

string s;

string p="";

cin>>s;

duplicate(s,p,0);

cout<<p;

}