//EXPT 1

import java.util.\*;

import java.io.\*;

class lexical {

public static void main(String args[]) {

int i,strlen,j=0,k=0;

Scanner sc=new Scanner(System.in);

char operator[]=new char[100];

char identify1[]=new char[100];

char a,b,c;

String ipstring;

System.out.println("\n Enter the statement:");

ipstring=sc.next();

strlen=ipstring.length();

for(i=0;i<strlen;i++) {

if(( ipstring.charAt(i)=='+')||( ipstring.charAt(i)=='/')||( ipstring.charAt(i)=='\*')||( ipstring.charAt(i)=='-' )|| ( ipstring.charAt(i)=='=') ||( ipstring.charAt(i)=='%')) {

operator[j]= ipstring.charAt(i);

j++; }

else {

identify1[k]= ipstring.charAt(i);

k++; }

}

System.out.println("\n The identifiers in the expression are:");

for(i=0;i<=k;i++) {

System.out.println(identify1[i]);

}

System.out.println("\n The operators in the expression are:");

for(i=0;i<=k;i++) {

System.out.println(operator[i]);

}

}

}

/\* OUTPUT

C:\Java\jdk1.7.0\bin>javac lexical.java

C:\Java\jdk1.7.0\bin>java lexical

Enter the statement:

d=a+b\*c

The identifiers in the expression are:

d

a

b

c

The operators in the expression are:

=

+

\*

\*/