In this problem, each letter of the alphabet corresponds to a number using the scheme: a=1, b=2, c=3, ... y=25, z=26. To encode a message, an encryption key word is added to the message. The key word is the first word in the message that is five or more characters long. For example, if the message were:

"give me liberty or give me death," the key word would be "liberty."

The encrypted message would be: s r x j e y k u k g w l s n d p k a w g d p n c y z

give me liberty or give me death  
libe rt ylibert yl iber ty liber  
-------------------------------------------------------------------------------------  
srxj ey kukgwls nd pkaw gd pncyz

**PROGRAM**

package encryption;

import java.util.Stack;

public class Main {

public static void main(String[] args) {

String str="give me liberty or give me death";

String s[]=str.split(" ");

String key=null;

for(int i=0;i<str.length();i++)

{

if(s[i].length()>=5)

{

key=s[i];

break;

}

}

char[] stck=new char[2000];

char k[]=key.toCharArray();

int count=1;

int no=0;

for(int i=0;;i++)

{

if(count>1000)

{

break;

}

if(i>=k.length)

{

i=-1;

count++;

}

else

{

stck[no]=k[i];

no++;

count++;

}

}

char alpha[]=new char[53];

for(int i=1;i<=26;i++)

{

alpha[i]=(char) (96 + i);

}

for(int i=27;i<=52;i++)

{

alpha[i]=(char) (96 + (i-26));

}

no=0;

String E[]=new String[100];

for(int i=0;i<s.length;i++)

{

char ltr[]=new char[20];

char temp[]=s[i].toCharArray();

for(int j=0;j<s[i].length();j++)

{

int t=(((temp[j] - 96) + (stck[no] - 96)));

ltr[j]=alpha[t];

System.out.print(ltr[j]);

no++;

}

System.out.print(" ");

}

}

}