/\*

\* Project: Quiz1

\* Name: Yijie Sun

\* Date: Sept.8 2016

\* Purpose: This program read phone number with letter and convert it to all number

\* \*/

**import** java.util.\*;

**public** **class** quiz1 {

**public** **static** **void** main(String[] arg){

Scanner read = **new** Scanner(System.***in***);

String phoneNum="";

String allNum ="";

**char** Continue;

**do**{

System.***out***.print("Enter a phone number: ");

phoneNum = read.nextLine();

allNum = *convert*(phoneNum);

System.***out***.println(phoneNum + " or " + allNum);

System.***out***.print("CONTINUE(y/n)? ");

//String flag = read.nextLine();

Continue = read.next().charAt(0);

String temp = read.nextLine();

}**while**(Continue =='y' || Continue =='Y');

}

**private** **static** String convert(String phoneNum){

String allNum = "";

**for**(**int** i=0; i<phoneNum.length(); i++){

**if**(i == 9){

allNum+='-';

}

**char** ch = phoneNum.charAt(i);

**if**(!Character.*isAlphabetic*(ch)){

allNum+=ch;

}**else** **if**(Character.*isAlphabetic*(ch)){

ch = Character.*toLowerCase*(ch);

**if**(ch =='a' || ch=='b' || ch=='c'){

allNum += '2';

}**else** **if**(ch =='d' || ch=='e' || ch=='f'){

allNum += '3';

}**else** **if**(ch =='g' || ch=='h' || ch=='i'){

allNum += '4';

}**else** **if**(ch =='j' || ch=='k' || ch=='l'){

allNum+='5';

}**else** **if**(ch =='m' || ch=='n' || ch=='o'){

allNum+='6';

}**else** **if**(ch =='p' || ch=='q' || ch=='r' || ch=='s'){

allNum+='7';

}**else** **if**(ch =='t' || ch =='u'||ch=='v'){

allNum+='8';

}**else** **if**(ch =='w' || ch=='x' || ch=='y' || ch== 'z'){

allNum+='9';

}

}

}

**return** allNum;

}

}

/\*\*\*\*\*\*\*\*output\*\*\*\*\*\*\*\*\*

Enter a phone number: 1-800-Dentist

1-800-Dentist or 1-800-336-8478

CONTINUE(y/n)? y

Enter a phone number: 1-800-funcars

1-800-funcars or 1-800-386-2277

CONTINUE(y/n)? n

\*/