import java.io.\*;

import java.lang.\*;

import java.util.\*;

import javax.swing.\*;

class L5P1T{

public static void main(String[] args){

double area,perimeter,l,w;

String length = JOptionPane.showInputDialog(null, "Enter the length:", "Input",JOptionPane.QUESTION\_MESSAGE);

l = Double.parseDouble(length);

String width = JOptionPane.showInputDialog(null, "Enter width", "Input",JOptionPane.QUESTION\_MESSAGE);

w = Double.parseDouble(width);

area = (l\*w) ;

perimeter = 2\*(l\*w);

if(l > 0 && w > 0){

JOptionPane.showMessageDialog(null,"Area: "+area +" and Perimeter: "+perimeter +" ","RESULT",JOptionPane.INFORMATION\_MESSAGE);

}

else if((l == 0 && w > 0 ) || (l > 0 && w == 0 )){

JOptionPane.showMessageDialog(null, "IT IS A LINE","RESULT", JOptionPane.INFORMATION\_MESSAGE);

}

else if(l == 0 && w == 0){

JOptionPane.showMessageDialog(null, "IT IS A POINT","RESULT", JOptionPane.INFORMATION\_MESSAGE);

}

else if(l < 0 && w < 0){

JOptionPane.showMessageDialog(null, "INVALID LENGTH and WIDTH","RESULT",JOptionPane.INFORMATION\_MESSAGE);

}

}