import java.util.Stack;

import javax.swing.JOptionPane;

public class PalindromeCheck {

public static void main(String[] args) {

String word = getInputWord();

if(checkPalindrome(word)){

JOptionPane.showMessageDialog(null,"The given String is a palindrome");

}

else{

JOptionPane.showMessageDialog(null,"The given String is not palindrome");

}

}

private static String getInputWord() {

String m = JOptionPane.showInputDialog("Enter String");

return m;

}

public static boolean checkPalindrome(String str){

Stack s = new Stack();

// putting all the chars into stack

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

s.push(str.charAt(i)+"");

String reverse="";

// pop all the chars from the stack and make a string, so that it is reverse of string

while(!s.isEmpty()){

reverse+=s.pop();

}

// checks actual string and reverse string

return reverse.equals(str);

}

}