第一题 4.26：

1.程序代码:

4.26.py - D:\Users\WYG\Desktop\科软\2学习\工程实践\程序设计\python\作...

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```
variable = eval(input("Enter a three-digit integer:"))  #输入一个3位整数
a = variable//100   #a为百位数
b = variable%10     #b为个位数
if a == 0 or a > 9: #检查输入的数是否为三位数
    print(variable,"is not a three-digit integer")
elif a == b:        #个位数和百位数相等则为回文数
    print(variable,"is a palindrome")
else:
    print(variable,"is not a palindrome")
```

Ln: 11 Col: 0

2.运行结果:

输入为回文数

Python 3.7.3 Shell

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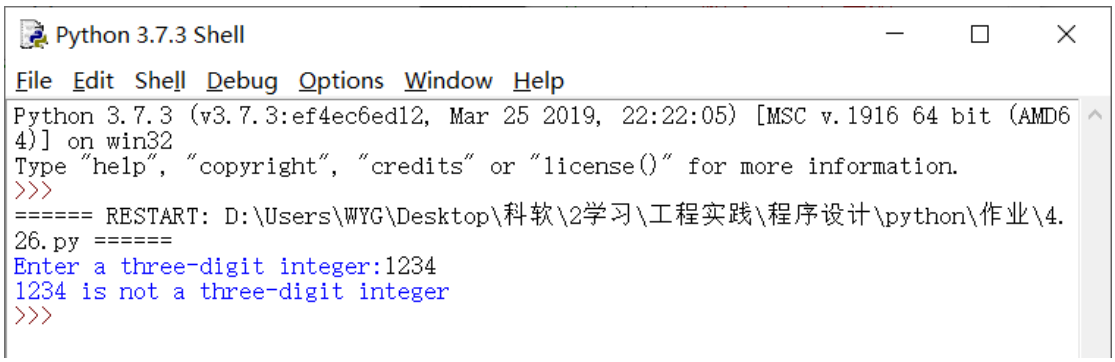
```
Python 3.7.3 (v3.7.3:ef4ec6ed12, Mar 25 2019, 22:22:05) [MSC v.1916 64 bit (AMD6
4)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
====== RESTART: D:\Users\WYG\Desktop\科软\2学习\工程实践\程序设计\python\作业\4.
26.py ======
Enter a three-digit integer:121
121 is a palindrome
>>>
```

输入为非回文数

输入为非三位数

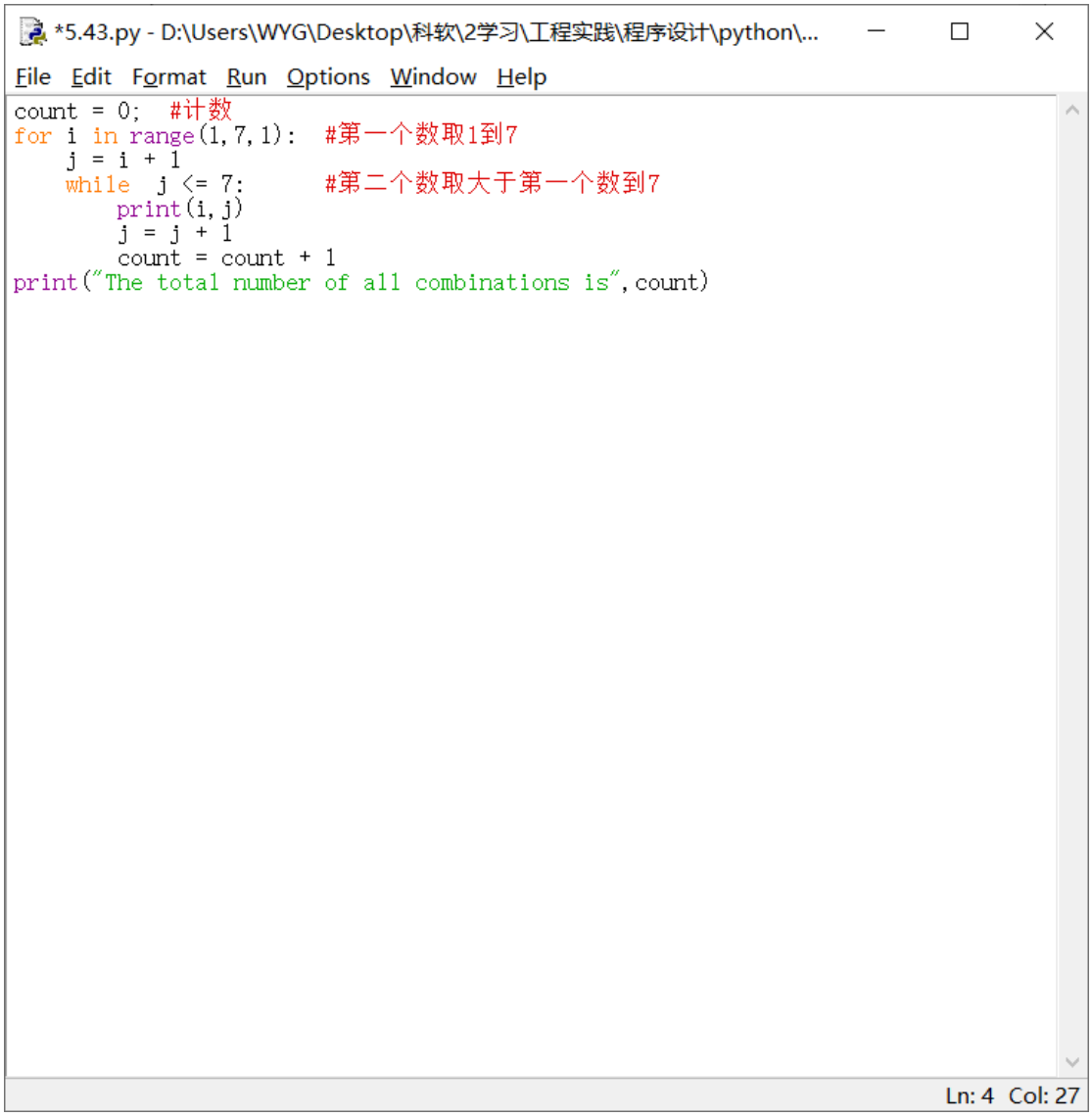


3.结果分析:

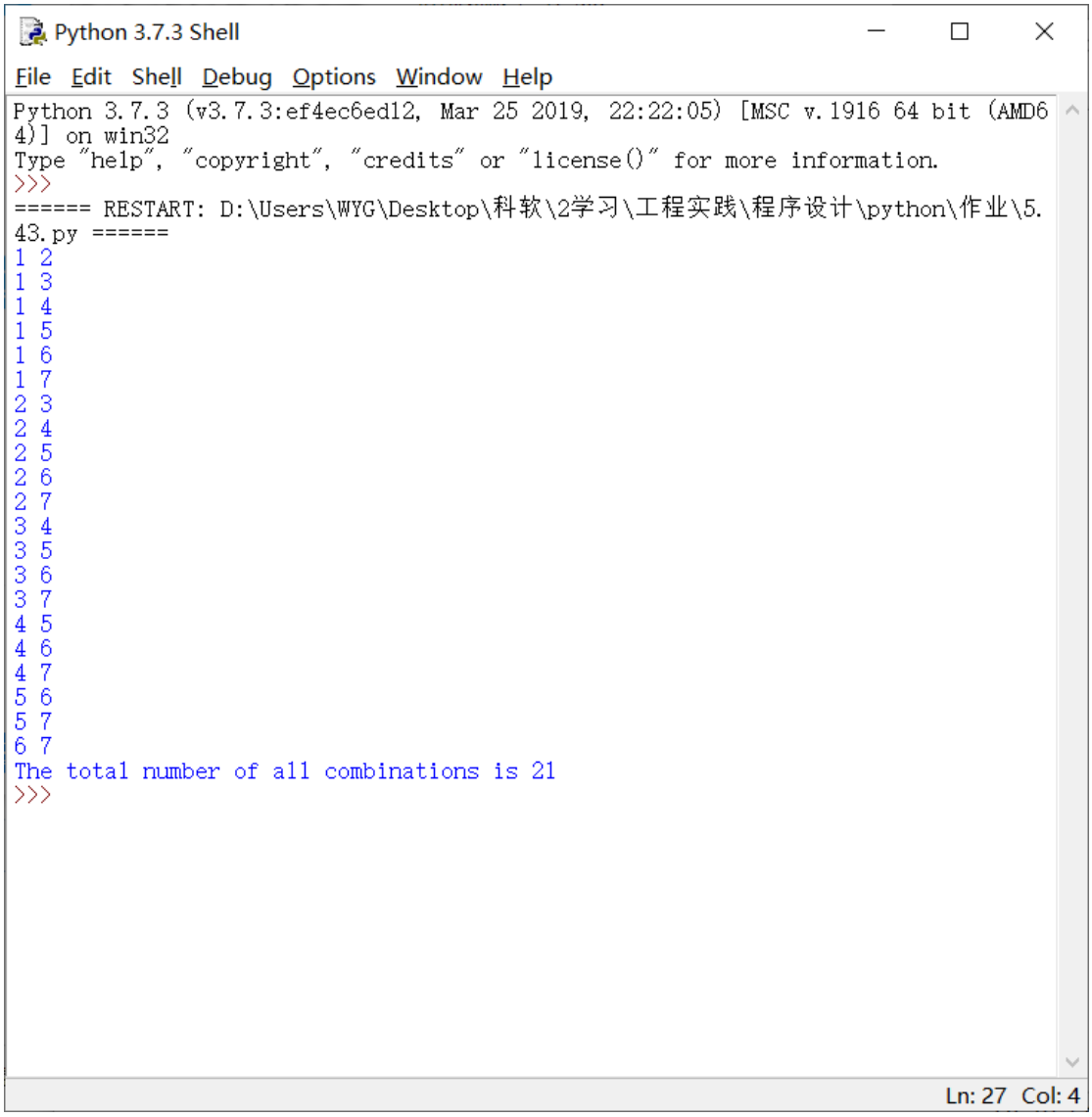
运行结果符合题目要求,可以判断输入的三位数是否为回文数,以及输入的数是否为三位数。

第二题 5.43：

1.程序代码:


*5.43.py - D:\Users\WYG\Desktop\科软\2学习\工程实践\程序设计\python\...
File Edit Format Run Options Window Help
count = 0; #计数
for i in range(1,7,1): #第一个数取1到7
    j = i + 1
    while j <= 7: #第二个数取大于第一个数到7
        print(i,j)
        j = j + 1
        count = count + 1
print("The total number of all combinations is",count)
Ln: 4 Col: 27

2.运行结果:



3.结果分析:

运行结果符合题目要求，这样的排列一共有 21 种，如上图所示。