```
实验2
还是在源文件所在处从Terminal打开,输入操作语句
"python PythonApplication9.py 2 3 4"
即可。后三位是三个参数。
import math
def area (a, b, c):
       s=float((a+b+c)/2)
       sum area=math. sqrt(s*(s-a)*(s-b)*(s-c))
       return sum area
class InvalidTriangleError(Exception):
       def init (self, message):
               self.message=message
import sys
try:
       a=float (sys. argv[1])
       b=float (sys. argv[2])
       c=float (sys. argv[3])
       if ((a+b-c)<1E-8 \text{ or } (b+c-a)<1E-8 \text{ or } (a+c-b)<1E-8):
               raise InvalidTriangleError('Cannot be a triangle.')
except IndexError:
       print('Less than 3 parameters.')
except ValueError:
       print('Parameters should be a number.')
except InvalidTriangleError as ex:
       print(ex.message)
else:
       print ('The area is \%f .'\%(area(a, b, c)))

    Windows 终端可在设置中设置为默认终端应用程序。
    打开设置

   Windows PowerShell
版权所有 (C) Microsoft Corporation。保留所有权利。
   安装最新的 PowerShell, 了解新功能和改进! https://aka.ms/PSWindows
   PS C:\Users\86136\source\repos\PythonApplication9\PythonApplication9> python PythonApplication9.py 2 3 4
    The area is 2.904738 .

15 C:\Users\86136\source\repos\PythonApplication9\PythonApplication9> python PythonApplication9.py 1145140 1145140 1919810
The area is 599405151125.589966 .

15 C:\Users\86136\source\repos\PythonApplication9\PythonApplication9> python PythonApplication9.py a 3 4
        meters should be a number.
|Visers\86136\source\repos\PythonApplication9\PythonApplication9> python PythonApplication9.py 2 b 4
      C:\Users\86136\source\repos\PythonApplication9\PythonApplication9> python PythonApplication9.py 2 3 c
        eters should be a number.

\Users\86136\source\repos\PythonApplication9\PythonApplication9> ^C
\Users\86136\source\repos\PythonApplication9\PythonApplication9> python PythonApplication9.py 2 3
        than 3 parameters.
\Users\86136\source\repos\PythonApplication9\PythonApplication9> python PythonApplication9.py 2 a
        \Users\86136\source\repos\PythonApplication9\PythonApplication9> python PythonApplication9.py
      ss than 3 parameters.
C:\Users\86136\source\repos\PythonApplication9\PythonApplication9> python PythonApplication9.py 1 1 2
    annot be a triangle.

S C:\Users\86136\source\repos\PythonApplication9\PythonApplication9> python PythonApplication9.py 2 3 -4 annot be a triangle.

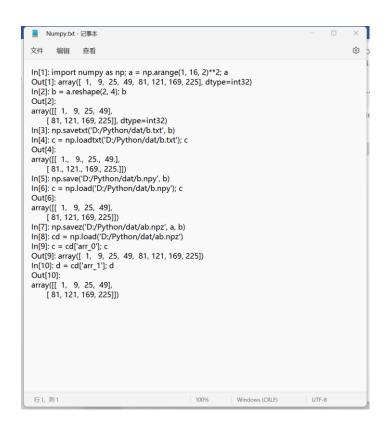
S C:\Users\86136\source\repos\PythonApplication9\PythonApplication9> python PythonApplication9.py 0 0 0
      nnot be a triangle.

C:\Users\86136\source\repos\PythonApplication9\PythonApplication9> python PythonApplication9.py 4.5 5.5 6.5
e area is 12.201915.

C:\Users\86136\source\repos\PythonApplication9\PythonApplication9>
```

## 实验 3

实验3并不难,这里可以使用 python 保存标准输入流,然后输出重定向到指定文件,完成函数输出以后再回到保存的 SavedStdout,并在控制台给出输出成功提示。strip()删掉数据中的换行符。





```
CyProgramData\Anaconda3\python.exe — X

Operation Successful.

Press any key to continue . . .
```