



# Python语言基础与应用

## 第一个 Python 程序

陈斌 北京大学 [gischen@pku.edu.cn](mailto:gischen@pku.edu.cn)

# 第一个Python程序

- › 交互式运行Python语句
- › 保存源文件运行程序



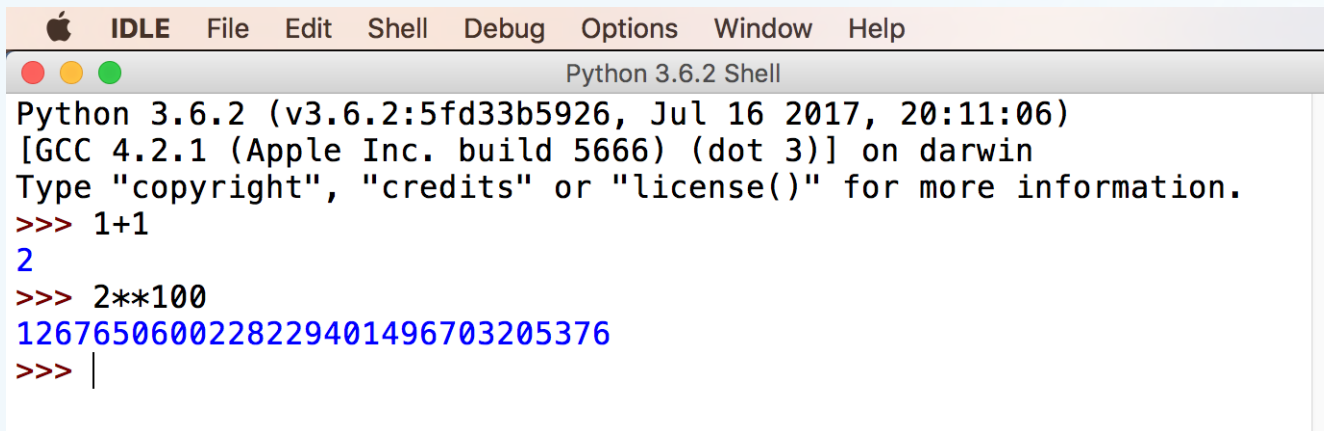
# 交互式运行Python语句：超级计算器

## › 打开IDLE

在Python shell中输入1+1，按Enter键

立即看到运行结果，当计算器用

可以计算 $2^{100}$ ！超级大的数都没问题



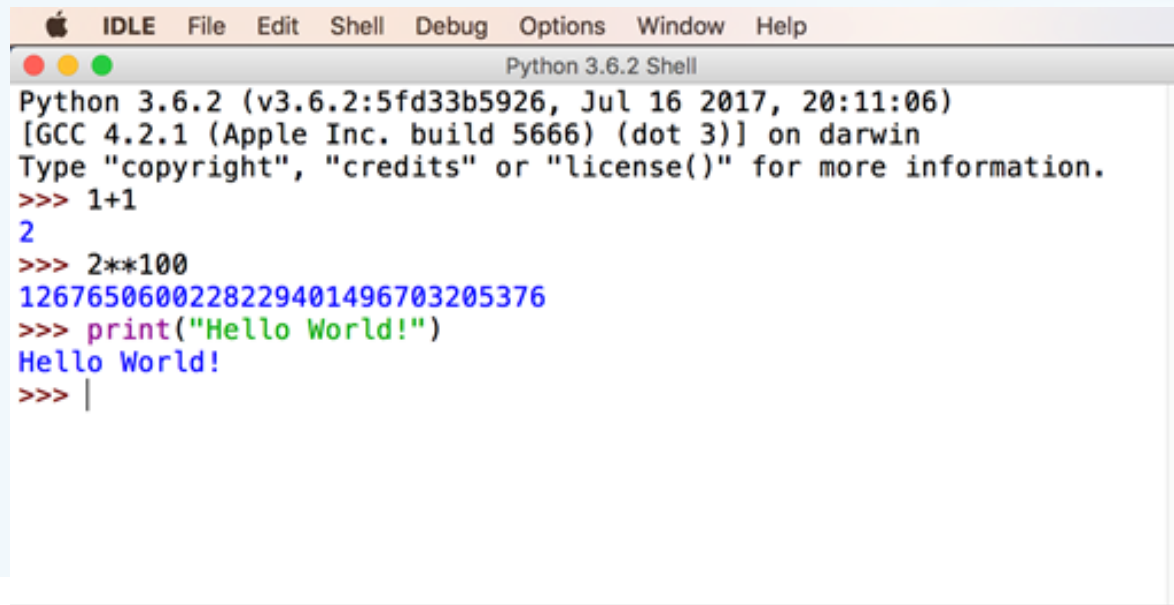
```
Python 3.6.2 (v3.6.2:5fd33b5926, Jul 16 2017, 20:11:06)
[GCC 4.2.1 (Apple Inc. build 5666) (dot 3)] on darwin
Type "copyright", "credits" or "license()" for more information.
>>> 1+1
2
>>> 2**100
1267650600228229401496703205376
>>> |
```

# 交互式运行Python语句：打开新世界的大门

## › 第一行程序代码编写

在Python shell中输入

```
print("Hello World!")
```



```
Python 3.6.2 (v3.6.2:5fd33b5926, Jul 16 2017, 20:11:06)
[GCC 4.2.1 (Apple Inc. build 5666) (dot 3)] on darwin
Type "copyright", "credits" or "license()" for more information.
>>> 1+1
2
>>> 2**100
1267650600228229401496703205376
>>> print("Hello World!")
Hello World!
>>> |
```

Ln: 10 Col: 4

# 保存源文件运行程序

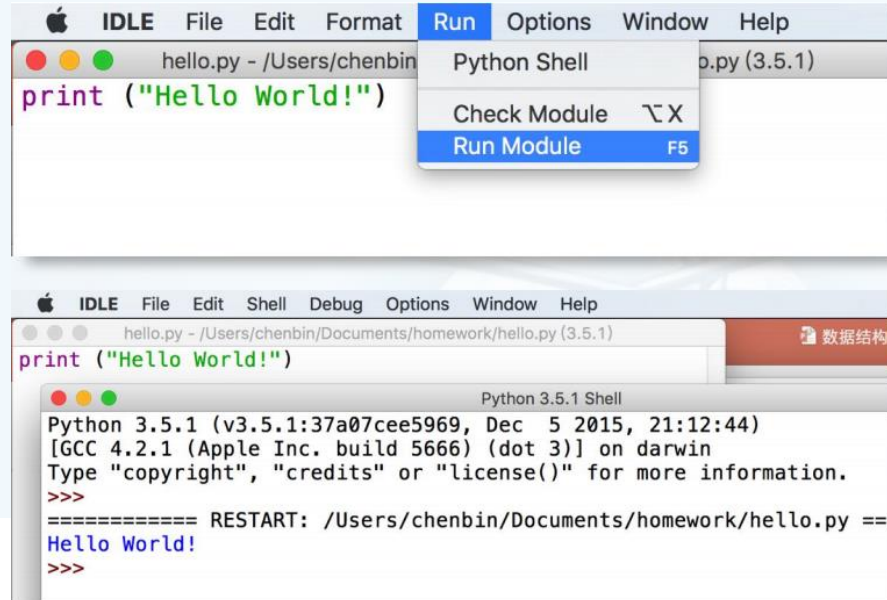
## › IDLE里编程的步骤

"File->New File" 打开文件编辑窗口

输入代码

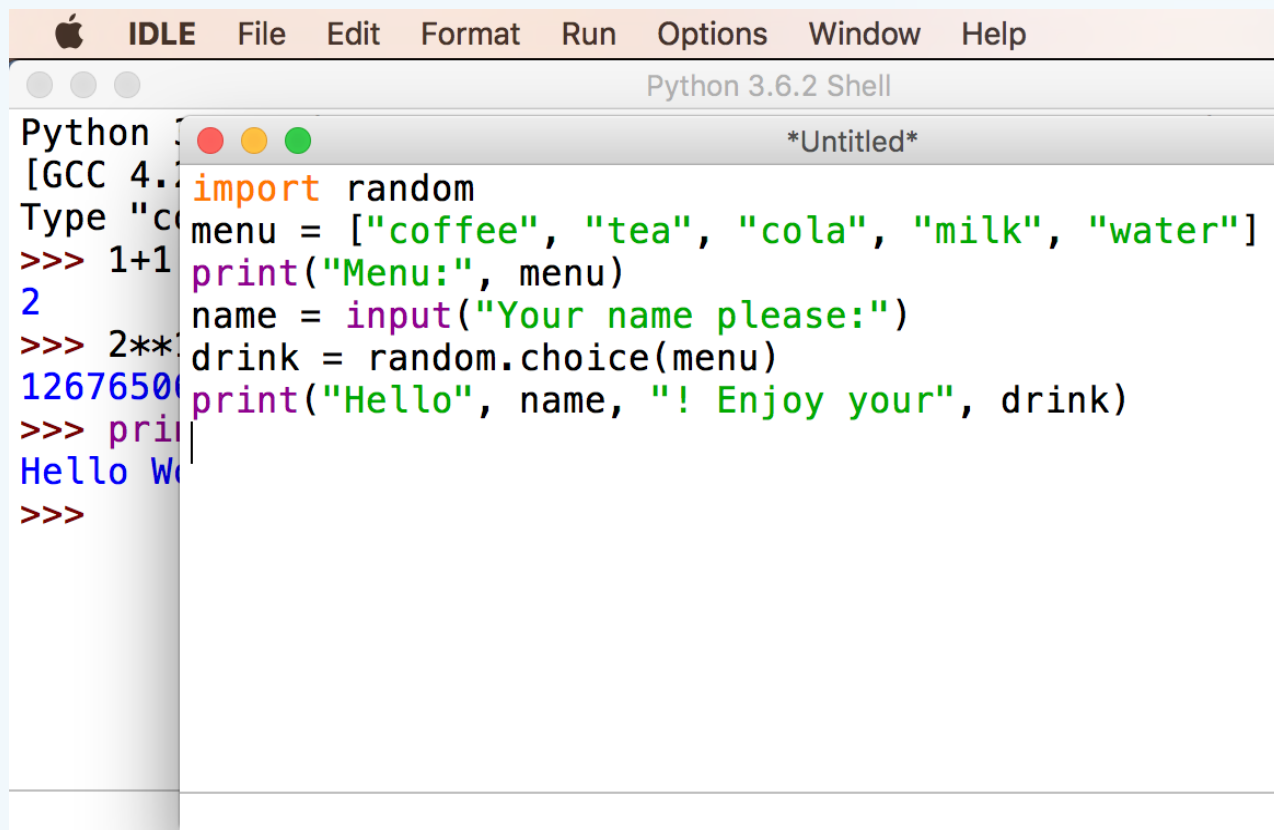
"File->Save" 保存文件

"Run->Run Module" 运行，查看结果



# 保存源文件运行程序

## > 给自己点一份饮料吧

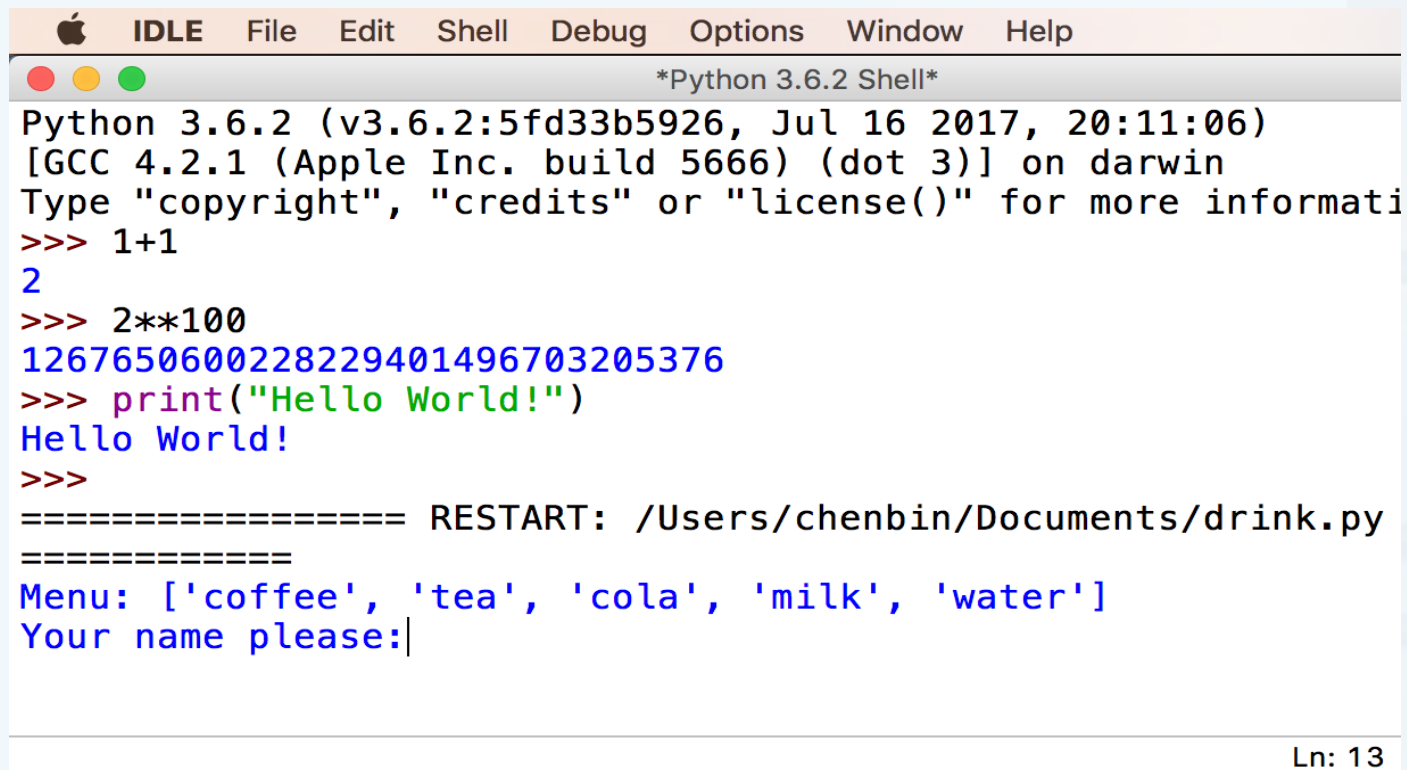


```
Python 3.6.2 Shell
[GCC 4.2.1]
Type "c"
>>> 1+1
2
>>> 2**2
4
1267650
>>> print("Hello", name, "! Enjoy your", drink)
Hello World
>>>
```

The screenshot shows a Python 3.6.2 Shell window with a menu of drinks: coffee, tea, cola, milk, and water. The program prompts the user for their name and then randomly selects a drink from the menu. The output shows the user's name and the selected drink.

# 保存源文件运行程序

## > 给自己点一份饮料吧



```
Python 3.6.2 (v3.6.2:5fd33b5926, Jul 16 2017, 20:11:06)
[GCC 4.2.1 (Apple Inc. build 5666) (dot 3)] on darwin
Type "copyright", "credits" or "license()" for more informati
>>> 1+1
2
>>> 2**100
1267650600228229401496703205376
>>> print("Hello World!")
Hello World!
>>>
==== RESTART: /Users/chenbin/Documents/drink.py =====
Menu: ['coffee', 'tea', 'cola', 'milk', 'water']
Your name please:|
```

Ln: 13