# Python 导论第二次作业

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## 1. 编程实现

本作业操作系统为 Linux Deepin, 代码编辑器为 Vim, Python 版本为 Anaconda3 中的 Python3.6.4,通过在 Terminal 中调用 Python 命令来运行本 次作业的代码文件 homework02.py 完成前四大题的编程实现;并且通过在 Terminal 中直接调用 iPython 来打开其交互界面,输入命令来实现第五大题的编程实现。代码运行结果如下图所示:

### 前四题代码运行结果如下图所示:

```
homework02
  jarvis@jarvis-PC:~$ vim homework02.py
jarvis@jarvis-PC:~$ cd Courses/python/homework02/
  jarvis@jarvis-PC:~/Courses/python/homework02$ vim homework02.py
jarvis@jarvis-PC: /Courses/python/homework02$ viminomework02.py
jarvis@jarvis-PC: /Courses/python/homework02$ python homework02.py
The type of 3.14 is: <class 'float'>
The type of -34 is: <class 'int'>
The type of None is: <class 'NoneType'>
The type of True is: <class 'bool'>
 The result of 4>+4 is: False
The result of 2+2==4 is: True
The result of True or False is: True
The result of False or False is: False
The result of 3.0-1.0!=5.0-3.0 is: False
The result of 3>4 or (2>3 and 9>10) is: False
The result of 4>5 or 3>4 and 9>8 is: False
The result of not(4>3 and 100>6) is: False
The type of 3+5.0 is: <class 'float'>
The type of 5/2 is: <class 'float'>
The type of 5/2==5/2.0 is: <class 'bool'>
The type of 5/2.0 is: <class 'float'>
The type of round(2.6) is: <class 'int'>
The type of int(2.6) is: <class 'int'>
The type of round(2.5) is: <class 'int'>
The type of 2.0+5.0 is: <class 'float'>
jarvis@jarvis-PC:~/Courses/python/homework02$
```

### 第五题代码运行结果如下:

```
IPython: homework02
jarvis@jarvis-PC:~/Courses/python/homework02$ ipython
Python 3.6.4 | Anaconda, Inc. | (default, Jan 16 2018, 18:10:19)

Type 'copyright', 'credits' or 'license' for more information

IPython 6.2.1 -- An enhanced Interactive Python. Type '?' for help.
In [2]: print( a+2.0, type(a+2.0) )
5.0 <class 'float'>
Traceback (most recent call last)
<ipython-input-6-6f93649ae274> in <module>()
----> 1 print( b, type(b) )
NameError: name 'b' is not defined
In [8]: print( a, type(a) )
3 <class 'int'>
In [10]: c = b > 9
In [11]: print( c, type(c) )
True <class 'bool'>
In [12]:
```

### 2. 代码附录

```
Homework02.py:
#*******************************
print("The type of 3.14 is: ",type(3.14))
print("The type of -34 is: ",type(-34))
print("The type of None is: ",type(None))
print("The type of True is: ",type(True))
print("The type of 3.0 is: ",type(3.0))
print()
#********************************
print("The result of 6+12-3
                             is:", 6+12-3 )
print("The result of 2*3.0
                            is:", 2*3.0
print("The result of --4
                            is:", --4
                            is:", 10/3
print("The result of 10/3
print("The result of 10//3
                            is:", 10//3
                                         )
print("The result of 10.0/3.0 is:", 10.0/3.0)
print("The result of (2+3)*4 is:", (2+3)*4)
print("The result of 2+3*4 is:", 3+3*4
print("The result of 2^{**}3+1 is:", 2^{**}3+1 )
print("The result of 2.1**2.0 is:", 2.1**2.0)
print()
#********************************
print("The result of 3>4
                              is:". 3>4
print("The result of 4.0>3.999 is:", 4.0>3.999)
print("The result of 4>4
                              is:", 4>4
print("The result of 4>+4
                               is:", 4>+4
print("The result of 2+2==4
                                is:". 2+2==4
print("The result of True or False is:", True or False)
print("The result of False or False is:", False or False)
print("The result of not False
                                  is:". not False
print("The result of 3.0-1.0!=5.0-3.0
                                         is:", 3.0-1.0!=5.0-3.0
print("The result of 3>4 or (2>3 and 9>10) is:", 3>4 or (2>3 and 9>10))
```

```
print("The result of 4>5 or 3>4 and 9>8 is:", 4>5 or 3>4 and
9>8
     )
                                                  is:", not(4>3 and
print("The result of not(4>3 and 100>6)
100>6)
print()
#*********************************
print("The type of 3+5.0 is: ",type(3+5.0))
print("The type of 5/2 is: ",type(5/2 ))
print("The type of 5/2==5/2.0 is: ",type(5/2==5/2.0))
                           is: ",type(5/2.0
print("The type of 5/2.0
print("The type of round(2.6) is: ",type(round(2.6)))
print("The type of int(2.6) is: ",type(int(2.6) ))
print("The type of round(2.5) is: ",type(round(2.5)))
print("The type of 2.0+5.0 is: ",type(2.0+5.0 ))
print("The type of 5*2==5.0*2.0 is: ",type(5*2==5.0*2.0))
```