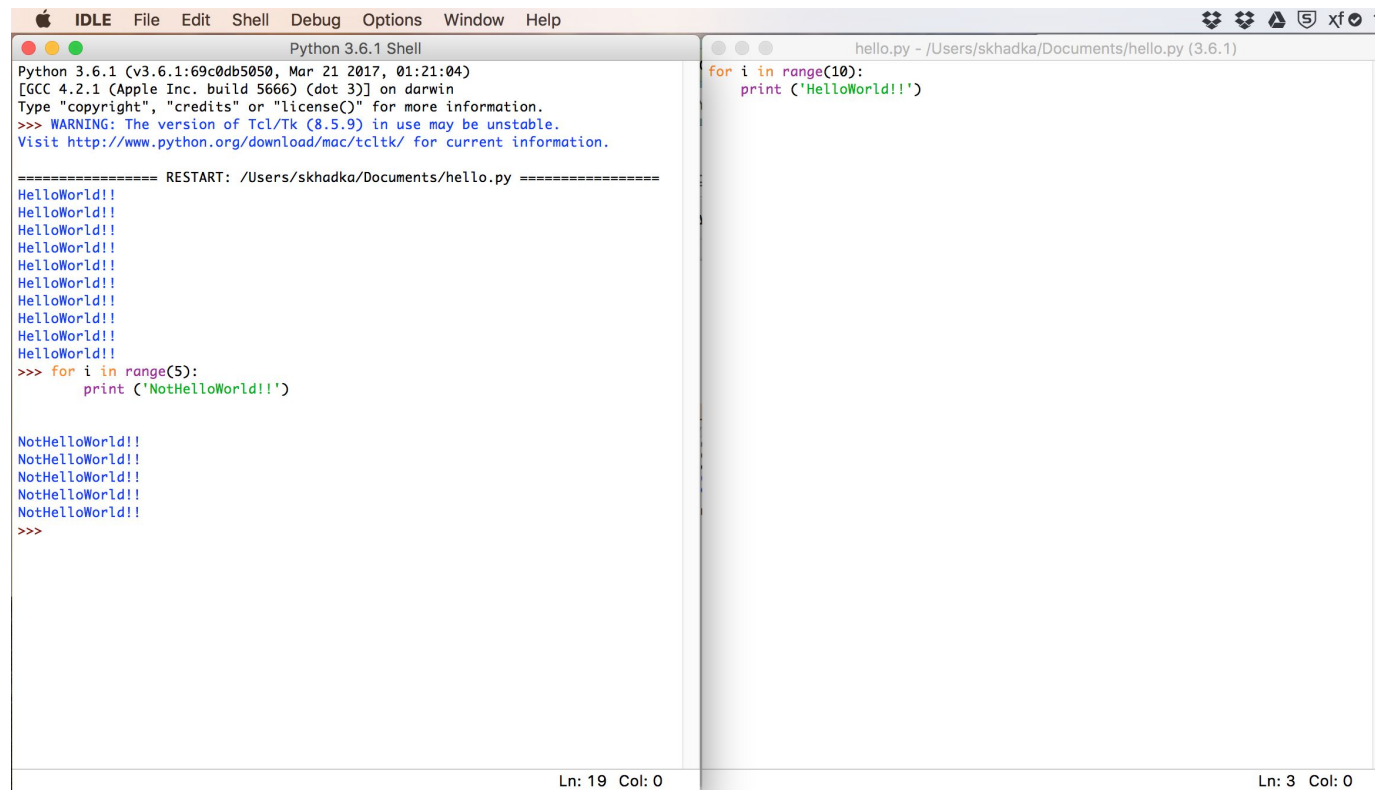


BU CodeBreakers 2017

Terminal

Before: IDLE (Integrated DeveLopment Environment)



The screenshot displays the IDLE Python IDE interface. The top menu bar includes 'IDLE', 'File', 'Edit', 'Shell', 'Debug', 'Options', 'Window', and 'Help'. The main workspace is divided into two panes. The left pane, titled 'Python 3.6.1 Shell', shows the output of a Python script execution. It begins with the Python version and GCC information, followed by a warning about the Tcl/Tk version. The output then shows a restart of the script, which prints 'HelloWorld!!' ten times and 'NotHelloWorld!!' five times. The right pane, titled 'hello.py - /Users/skhadka/Documents/hello.py (3.6.1)', shows the source code of the script. The code consists of a loop that prints 'HelloWorld!!' ten times, followed by another loop that prints 'NotHelloWorld!!' five times. The status bar at the bottom indicates the current line and column for both panes: 'Ln: 19 Col: 0' for the shell and 'Ln: 3 Col: 0' for the script editor.

```
Python 3.6.1 (v3.6.1:69c0db5050, Mar 21 2017, 01:21:04)
[GCC 4.2.1 (Apple Inc. build 5666) (dot 3)] on darwin
Type "copyright", "credits" or "license()" for more information.
>>> WARNING: The version of Tcl/Tk (8.5.9) in use may be unstable.
Visit http://www.python.org/download/mac/tcltk/ for current information.

===== RESTART: /Users/skhadka/Documents/hello.py =====
HelloWorld!!
HelloWorld!!
HelloWorld!!
HelloWorld!!
HelloWorld!!
HelloWorld!!
HelloWorld!!
HelloWorld!!
HelloWorld!!
HelloWorld!!
>>> for i in range(5):
    print ('NotHelloWorld!!')

NotHelloWorld!!
NotHelloWorld!!
NotHelloWorld!!
NotHelloWorld!!
NotHelloWorld!!
>>>
```

```
for i in range(10):
    print ('HelloWorld!!')
```

WHAT IS A
SHELL/TERMINAL?

What is Shell/Terminal?

- User program provided for user interaction
- Command language interpreter that executes commands from a standard input device (keyboard) or a file
- Benefits?
 - Faster than GUI
 - Quick and dirty way to execute utilities



Some Terminal **Commands**

- | | |
|---------------------------------------|---------------------------------------|
| 1. Get working directory | pwd |
| 2. List everything inside working dir | ls |
| 3. Change into the directory: | cd <i>directory_name</i> |
| 4. Make a directory: | mkdir <i>directory_name</i> |
| 5. Make/edit a file: | echo "text" > <i>file_name</i> |
| 6. Display file contents: | cat <i>file_name</i> |
| 7. Get command descriptions: | man <i>command</i> |
| 8. Additional commands: | |

<https://learnpythonthehardway.org/book/appendixa.html>

Running Python scripts

1. Open a text editor (gedit)
2. Write a program named helloworld.py that prints “Hello World!!!”

Hint: print (‘what should I print?’)

3. Save the program
4. How should you run the program?

Hint: Terminal

```
>>> python helloworld.py
```

