

# Self-Check 1

Due Date: Sunday, September 15, 2019, 11:59pm

Answer the following questions to check your understanding of your material. Expect the same kind of questions to show up on your tests. For this course, we use vi and vim interchangeably.

## 1. Definitions and Short Answers

1. What is a **command-line interface**?  
文字指令介面
2. What is a **prompt**?  
>>> 表示Python正處於ready狀態等待接收command  
bash use \$  
DOS use >  
csh use %
3. What is the **working directory**?  
使用者當前所在的directory
4. What is a **shell**?  
一個用文字指令去互動的環境 例如: Bash(Bourne-Again SHell)
5. What does the **mkdir** command do?  
make a directory
6. What is the command for **renaming a file**?  
mv old\_name new\_name
7. What is a **path**?  
檔案的位置  
~ is home directory    . is current directory  
.. is parent directory    / character is for directory separator
8. What does the path **..** (i.e., two dots) refer to?  
.. is parent directory
9. In the vi text editor, what sequence of keys do you type to **move the cursor down** by one position and left by **twenty (20) positions**? Is there a better way than having to type the key for moving left 20 times?  
一開始在command mode 有四個字母可移動cursor j(down) k(up) h(left) l(right)  
故要輸入1個j 和20個h 或用 w (word forward) b (word backward) 可以一次跳1個word
10. In the vi text editor, how do you **save** (a file that already exists) **and quit** (as one command)?  
:wq

## 2. Programming

1. Use vi to create a plain text file named "hello.py". It should print "Hello world" (without quotes) on one line.
2. Run hello.py from the command line.
3. Edit hello.py so that it prints three lines:  
Hello world!  
My name is \_\_\_\_  
Today is \_\_\_\_  
Replace \_\_\_\_ with your name and today's date.

```
>>>
[3]+ 已停止          Python3.7

AlexHsu@DESKTOP-AIPPDJG ~
$ vi hello.py

AlexHsu@DESKTOP-AIPPDJG ~
$ Python3.7 hello.py
Hello World

AlexHsu@DESKTOP-AIPPDJG ~
$ vi hello.py

AlexHsu@DESKTOP-AIPPDJG ~
$ vi hello.py

AlexHsu@DESKTOP-AIPPDJG ~
$ Python3.7 hello.py
Hello World!
My name is Alex
Today is 9/11

AlexHsu@DESKTOP-AIPPDJG ~
$
```

[illegible]