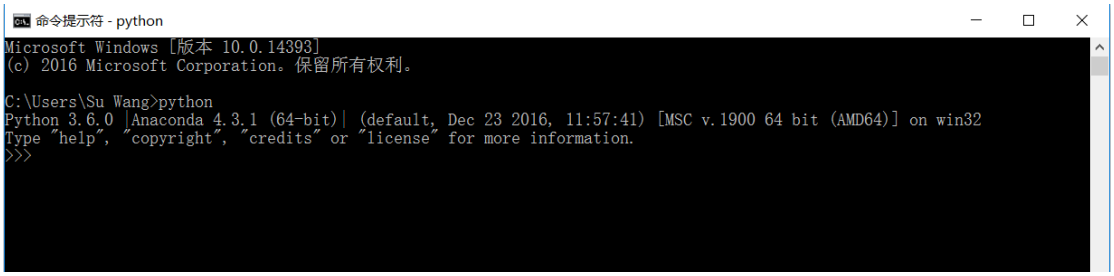
Name: Su Wang Date 09/1/2018

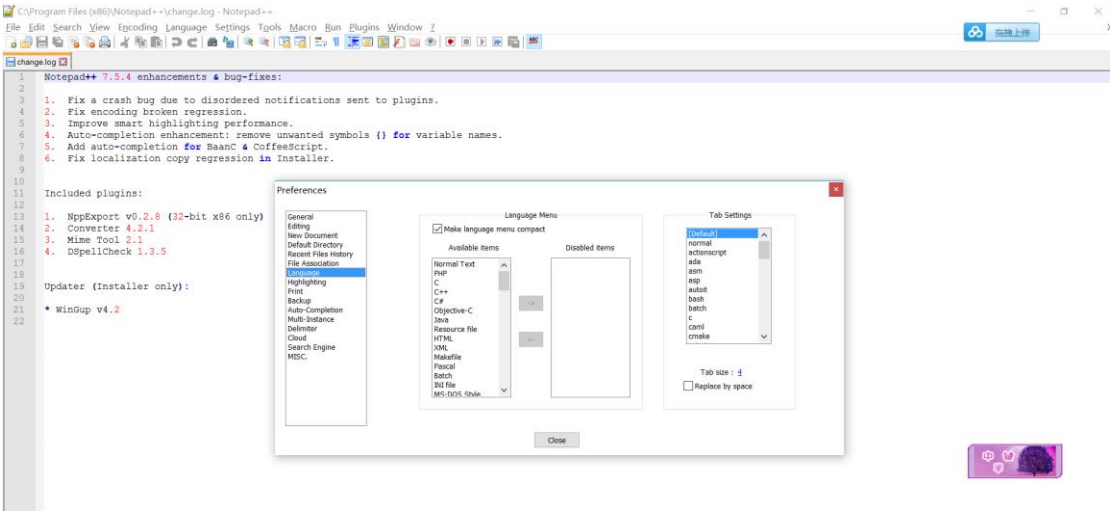
Assignment 1-1 Installing Anaconda (Python)

Installation when smoothly. Got Python running on the windows command prompt.



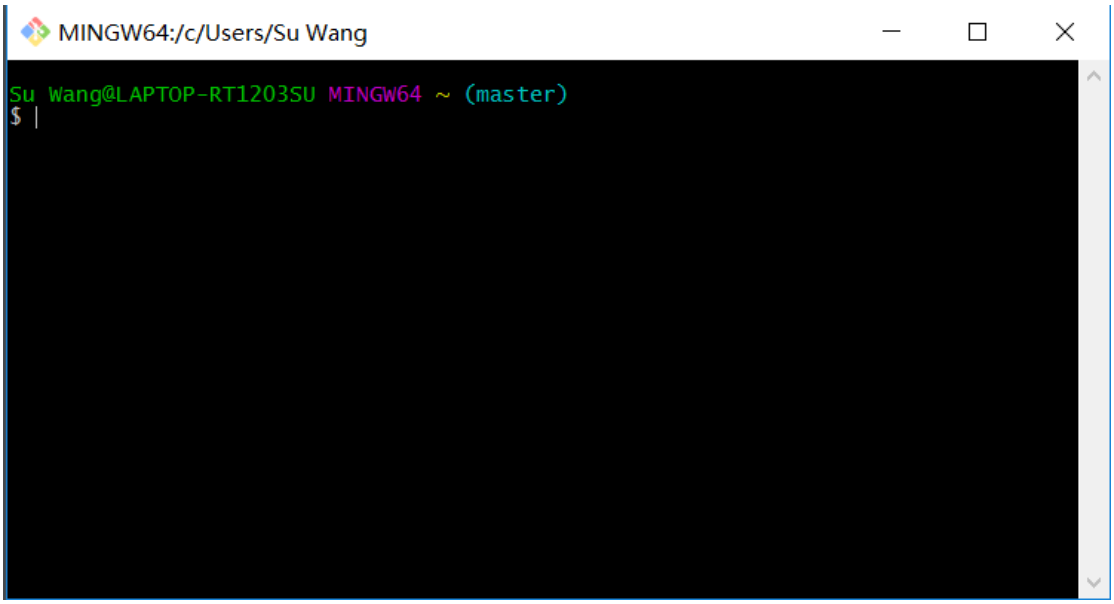
Comments or observation: N/A

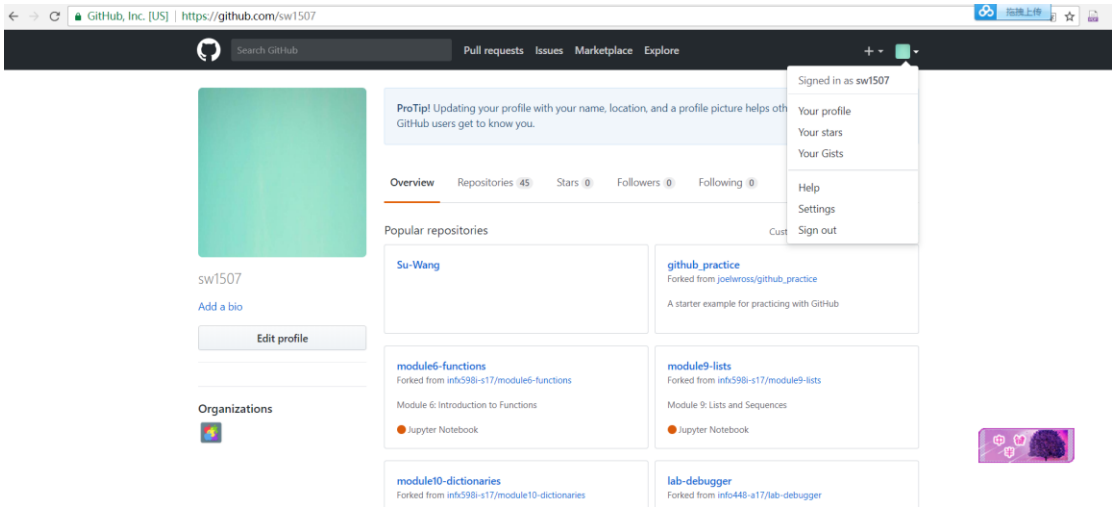
Assignment1-2 Installing Notepad++



Comments or observation: N/A

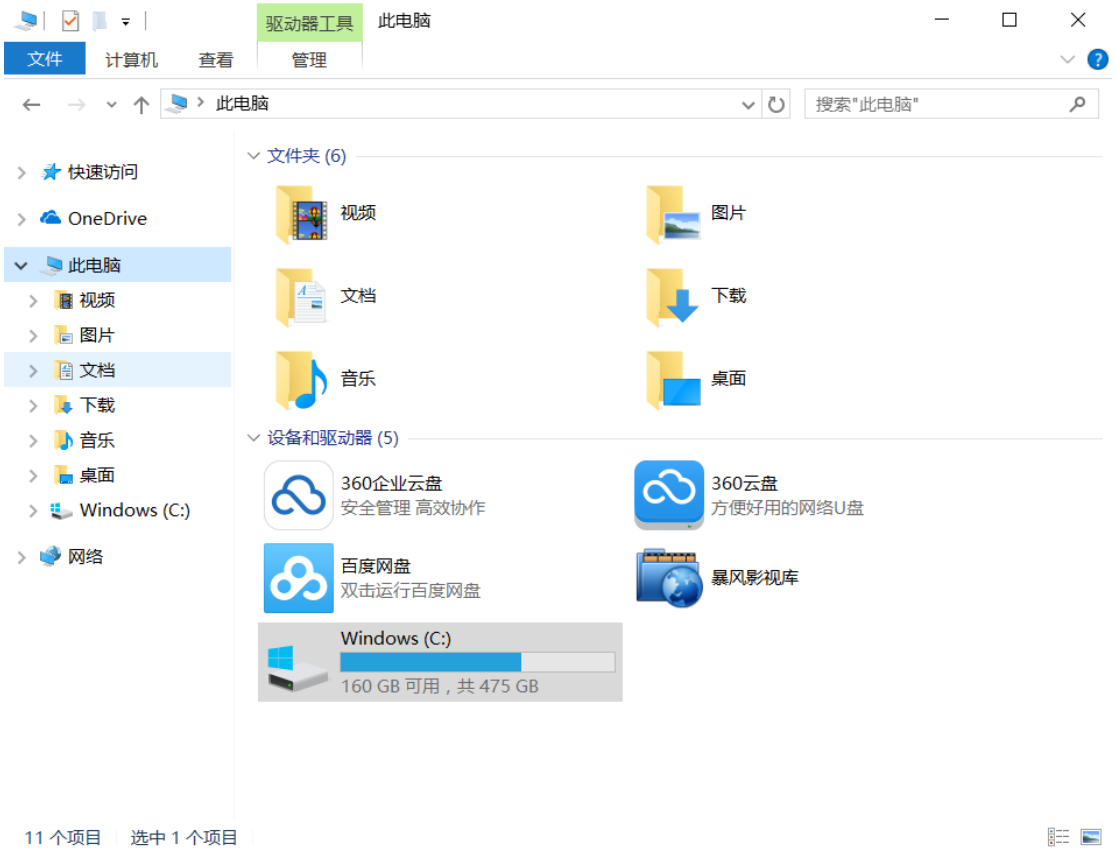
Assignment 1-3 Installing Git and Github



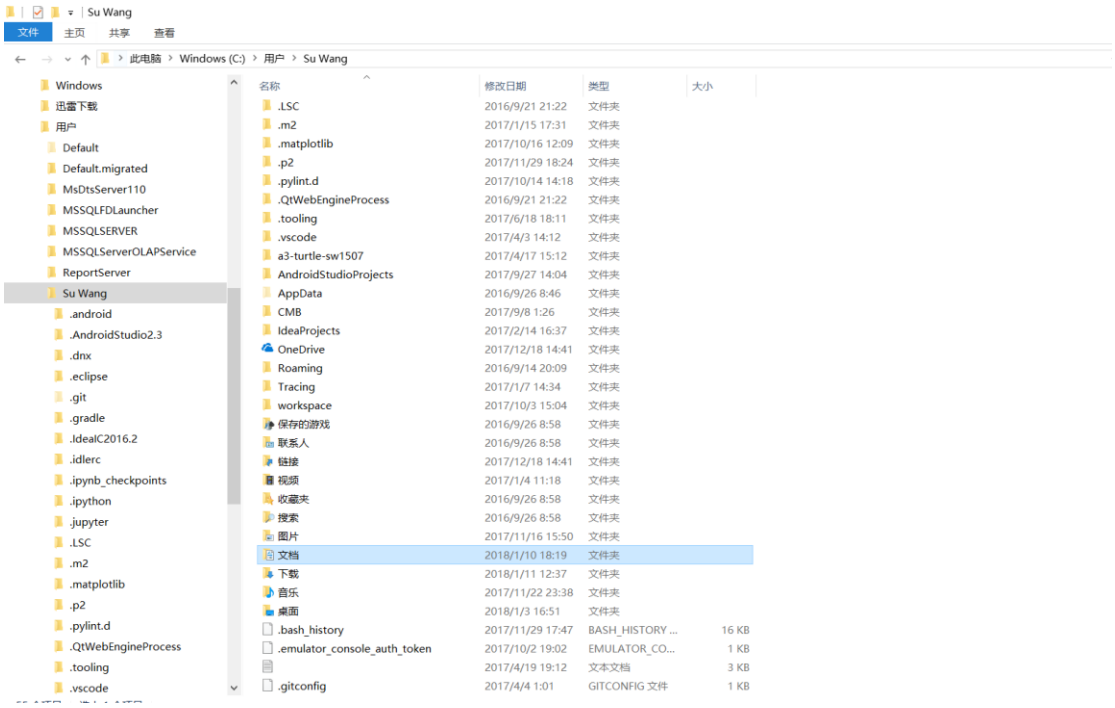


Assignment 1-4: the command line interface

Task1: File explorer



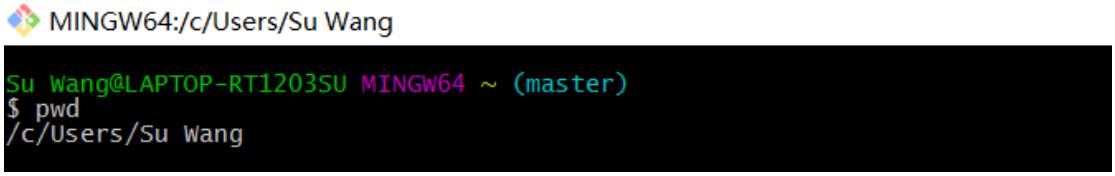
Task 2: Looking at root directory



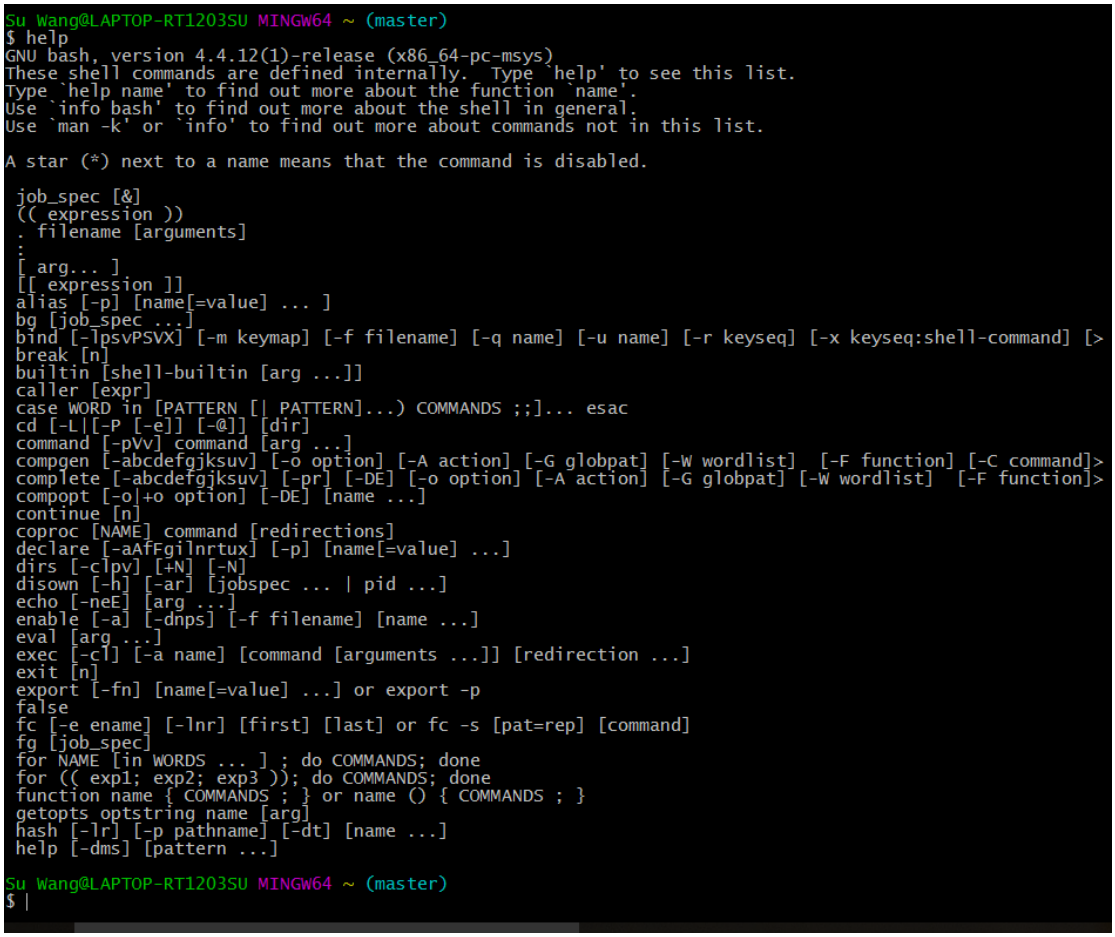
Task3: Looking at command line

Task4

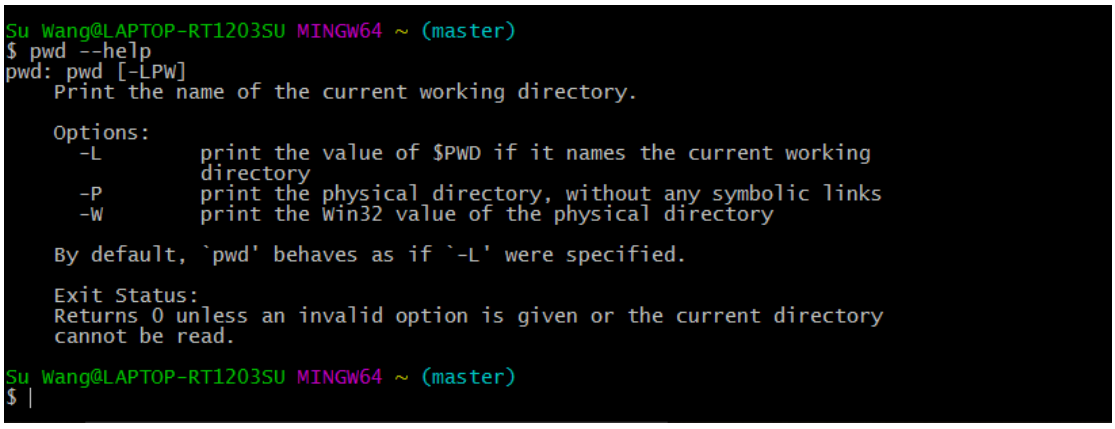
1. pwd



2. help



3. pwd –help



Command History Feature

2.

```
Su Wang@LAPTOP-RT1203SU MINGW64 ~ (master)
$ history
   13  python test.py
   14  python test.py
   15  python test.py
   16  python test.py
   17  python test.py
   18  python test.py
   19  wd
   20  pwd
   21  cd ..
   22  cd ..
   23  pwd
   24  cd cd Su Wang
   25  cd Su Wang
   26  cd 'Su Wang'
   27  cd Downloads/
   28  python exercise.py
   29  python exercise.py
   30  python exercise.py
   31  python exercise.py
   32  pwd
   33  cd ..
   34  cd ..
   35  pwd
   36  cd 'Su Wang'/
   37  cd Desktop/
   38  cd database/
   39  cd final
   40  pwd
   41  python exercise.py
   42  python exercise.py
   43  pwd
   44  cd ..
   45  cd ..
   46  cd ..
   47  pwd
   48  cd Desktop
   49  cd INFO448
```

3.

```
Su Wang@LAPTOP-RT1203SU MINGW64 ~ (master)
$ !501
pwd
/c/Users/Su Wang

Su Wang@LAPTOP-RT1203SU MINGW64 ~ (master)
$
```

Task5: Listing Directories and Files

```
Su Wang@LAPTOP-RT1203SU MINGW64 ~ (master)
$ ls
 a3-turtle-sw1507/       facility.db              NetHood@
 AndroidStudioProjects/  Favorites/               NTUSER.DAT
 AppData/                gutenberg1.txt           ntuser.dat.LOG1
'Application Data'@      huskies2016.txt          ntuser.dat.LOG2
 CMB/                    IdeaProjects/            NTUSER.DAT{87d678ad-8408-11e6-b396-d4b704fee319}.TM.blf
 Contacts/               IntelGraphicsProfiles/   NTUSER.DAT{87d678ad-8408-11e6-b396-d4b704fee319}.TMContainer00000000000000000001.regtrans
 Cookies@                Links/                   NTUSER.DAT{87d678ad-8408-11e6-b396-d4b704fee319}.TMContainer00000000000000000002.regtrans
 Desktop/               'Local Settings'@         ntuser.ini
 Documents/              Music/                   OneDrive/
 Downloads/             'My Documents'@           Pictures/

Su Wang@LAPTOP-RT1203SU MINGW64 ~ (master)
$
```

```
Su Wang@LAPTOP-RT1203SU MINGW64 ~ (master)
$ ls Documents/
 desktop.ini            'My Music'@          PTCK/              script.sql                      'TPO_win V8.7.4.1.rar'
 maplestory2/           'My Pictures'@      'Python Scripts'/  'SQL Server Management Studio'/  'Visual Studio 2010'/
'My Digital Editions'/  'My Videos'@         R/                 'Tencent Files'/                'Visual Studio 2013'/
'My Kindle Content'/     OxygenXMLEditor/    samsung/           TPO_win/                        'Visual Studio 2015'/

Su Wang@LAPTOP-RT1203SU MINGW64 ~ (master)
$
```

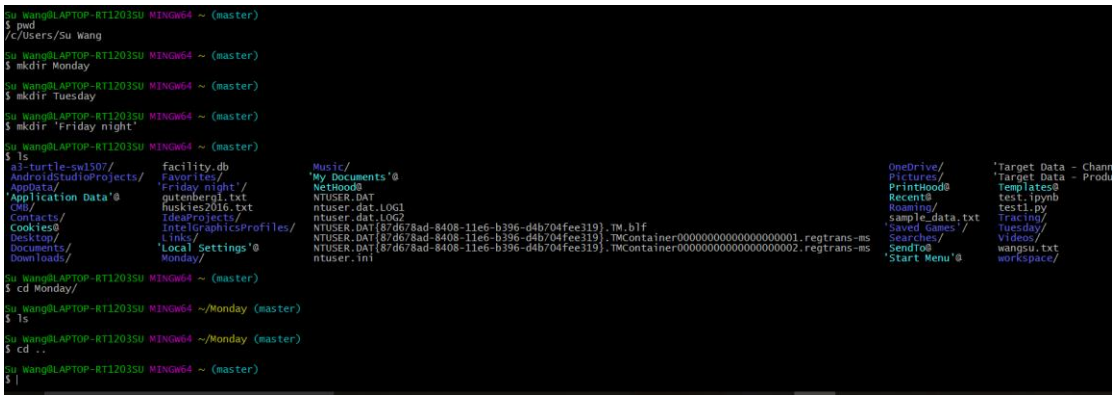
```
Su Wang@LAPTOP-RT1203SU MINGW64 ~ (master)
$ cd Documents/Python\ Scripts/

Su Wang@LAPTOP-RT1203SU MINGW64 ~/Documents/Python Scripts (master)
$
```

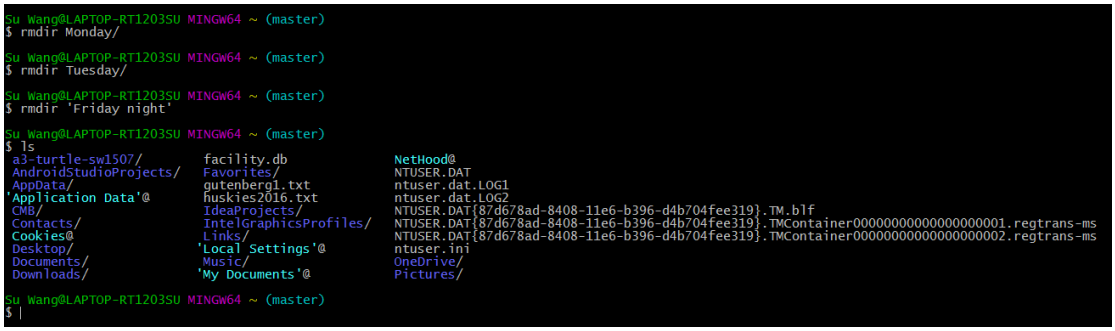
```
Su Wang@LAPTOP-RT1203SU MINGW64 ~/Documents/Python Scripts (master)
$ cd ..

Su Wang@LAPTOP-RT1203SU MINGW64 ~/Documents (master)
$ cd ..

Su Wang@LAPTOP-RT1203SU MINGW64 ~ (master)
$ cd /

Su Wang@LAPTOP-RT1203SU MINGW64 /
$ pwd
/

Su Wang@LAPTOP-RT1203SU MINGW64 /
$
```

Task6:

```
Su Wang@LAPTOP-RT1203SU MINGW64 /
$ cd Users/'Su Wang'/
bash: cd: Users/Su Wang/: No such file or directory

Su Wang@LAPTOP-RT1203SU MINGW64 /
$ cd c/Users/'Su Wang'/

Su Wang@LAPTOP-RT1203SU MINGW64 ~ (master)
$
```

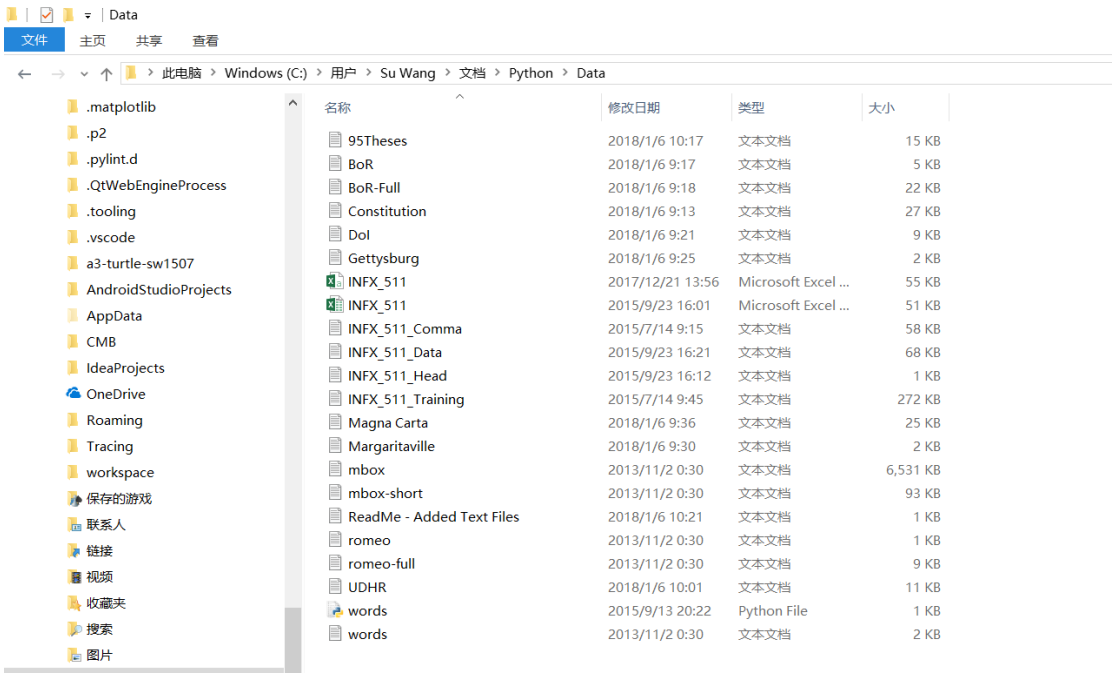
Task7

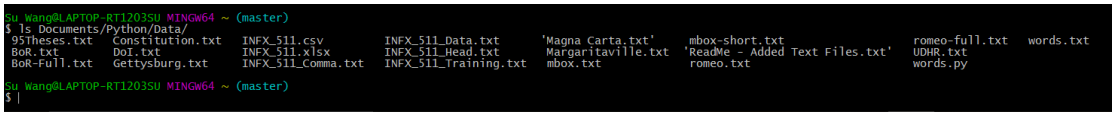




```
Su Wang@LAPTOP-RT1203SU MINGW64 ~ (master)
$ mkdir Documents/Python

Su Wang@LAPTOP-RT1203SU MINGW64 ~ (master)
$ mkdir Documents/Python/Data

Su Wang@LAPTOP-RT1203SU MINGW64 ~ (master)
$ mkdir Documents/Python2

Su Wang@LAPTOP-RT1203SU MINGW64 ~ (master)
$ mkdir Documents/Python3

Su Wang@LAPTOP-RT1203SU MINGW64 ~ (master)
$ ls Documents/
 desktop.ini             'My Music'@          PTCK/              Python3/     'SQL Server Management Studio'/
 maplestory2/            'My Pictures'@       Python/            R/           'Tencent Files'/
'My Digital Editions'/   'My Videos'@        'Python Scripts'/   samsung/      TPO_win/
'My Kindle Content'/     OxygenXMLEditor/     Python2/           script.sql   'TPO_win V8.7.4.1.rar'

Su Wang@LAPTOP-RT1203SU MINGW64 ~ (master)
$ ls Documents/Python
Data/

Su Wang@LAPTOP-RT1203SU MINGW64 ~ (master)
$
```

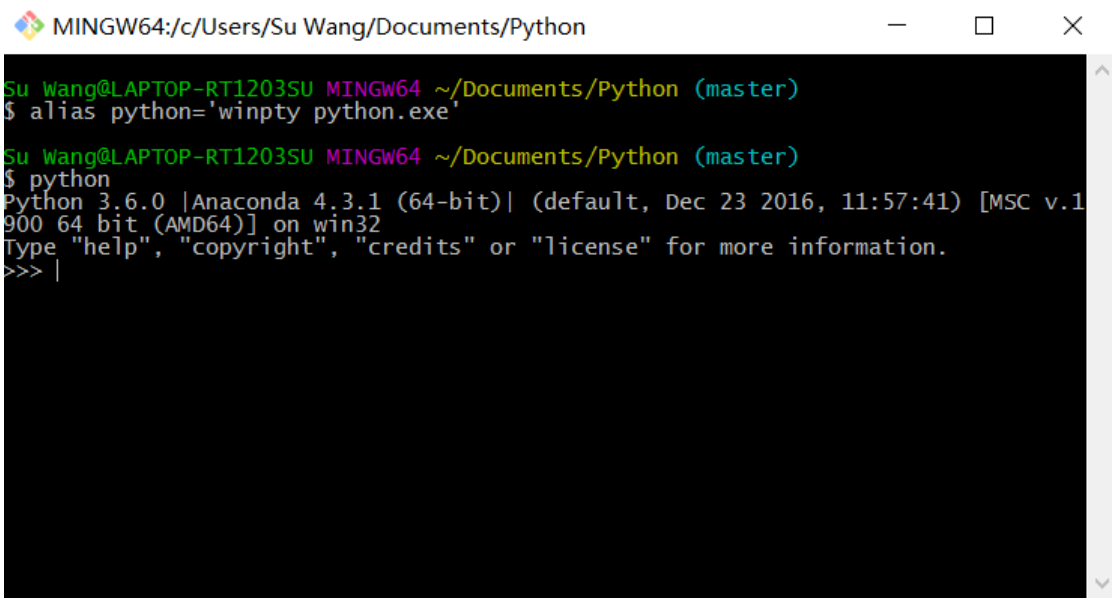
Task8


Data
文件
主页
共享
查看
此电脑 › Windows (C:) › 用户 › Su Wang › 文档 › Python › Data
.matplotlib
.p2
.pylint.d
.QtWebEngineProcess
.tooling
.vscode
a3-turtle-sw1507
AndroidStudioProjects
AppData
CMB
IdeaProjects
OneDrive
Roaming
Tracing
workspace
保存的游戏
联系人
链接
视频
收藏夹
搜索
图片
名称
修改日期
类型
大小
95Theses 2018/1/6 10:17 文本文档 15 KB
BoR 2018/1/6 9:17 文本文档 5 KB
BoR-Full 2018/1/6 9:18 文本文档 22 KB
Constitution 2018/1/6 9:13 文本文档 27 KB
DoI 2018/1/6 9:21 文本文档 9 KB
Gettysburg 2018/1/6 9:25 文本文档 2 KB
INFX_511 2017/12/21 13:56 Microsoft Excel ... 55 KB
INFX_511 2015/9/23 16:01 Microsoft Excel ... 51 KB
INFX_511_Comma 2015/7/14 9:15 文本文档 58 KB
INFX_511_Data 2015/9/23 16:21 文本文档 68 KB
INFX_511_Head 2015/9/23 16:12 文本文档 1 KB
INFX_511_Training 2015/7/14 9:45 文本文档 272 KB
Magna Carta 2018/1/6 9:36 文本文档 25 KB
Margaritaville 2018/1/6 9:30 文本文档 2 KB
mbox 2013/11/2 0:30 文本文档 6,531 KB
mbox-short 2013/11/2 0:30 文本文档 93 KB
ReadMe - Added Text Files 2018/1/6 10:21 文本文档 1 KB
romeo 2013/11/2 0:30 文本文档 1 KB
romeo-full 2013/11/2 0:30 文本文档 9 KB
UDHR 2018/1/6 10:01 文本文档 11 KB
words 2015/9/13 20:22 Python File 1 KB
words 2013/11/2 0:30 文本文档 2 KB


Su Wang@LAPTOP-RT1203SU MINGW64 ~ (master)
$ ls Documents/Python/Data/
95Theses.txt Constitution.txt INFX_511.csv INFX_511_Data.txt 'Magna Carta.txt' mbox-short.txt romeo-full.txt words.txt
BoR.txt DoI.txt INFX_511.xlsx INFX_511_Head.txt Margaritaville.txt 'ReadMe - Added Text Files.txt' UDHR.txt
BoR-Full.txt Gettysburg.txt INFX_511_Comma.txt INFX_511_Training.txt mbox.txt romeo.txt words.py
Su Wang@LAPTOP-RT1203SU MINGW64 ~ (master)
$


Su Wang@LAPTOP-RT1203SU MINGW64 ~ (master)
$ rmdir Documents/Python2
Su Wang@LAPTOP-RT1203SU MINGW64 ~ (master)
$ rmdir Documents/Python3
Su Wang@LAPTOP-RT1203SU MINGW64 ~ (master)
$ rmdir Documents/Python
rmdir: failed to remove 'Documents/Python': Directory not empty
Su Wang@LAPTOP-RT1203SU MINGW64 ~ (master)
$ ls Documents/
desktop.ini 'My Music'@ PTCK/ samsung/ TPO_win/ 'Visual Studio 2015'/ 基础班课表2014年12.08班.xls
maplestory2/ 'My Pictures'@ Python/ script.sql 'TPO_win V8.7.4.1.rar' 'WeChat Files'/ '我的 Tableau 存储库'/
'My Digital Editions'/ 'My Videos'@ 'Python Scripts'/ 'SQL Server Management Studio'/ 'Visual Studio 2010'/ 暴风影视库/ 我的形状/
'My Kindle Content'/ OxygenXMLEditor/ R/ 'Tencent Files'/ 'Visual Studio 2013'/ '基础班课表2014年12.08班(1).xls' '自定义 Office 模板'/
Su Wang@LAPTOP-RT1203SU MINGW64 ~ (master)
$

Task9


MINGW64:/c/Users/Su Wang/Documents/Python
Su Wang@LAPTOP-RT1203SU MINGW64 ~/Documents/Python (master)
$ alias python='winpty python.exe'
Su Wang@LAPTOP-RT1203SU MINGW64 ~/Documents/Python (master)
$ python
Python 3.6.0 |Anaconda 4.3.1 (64-bit)| (default, Dec 23 2016, 11:57:41) [MSC v.1900 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>>

1.13 Exercise

Exercise1. C

Exercise2. A sequence of Python statements that have been crafted to do something

Exercise3. They are translators that convert the programs to machine language for actual execution by the CPU. The translators fall into two categories, interpreters and compilers. An interpreter reads the source code of the program as written by the programmer parses the source code, and interprets the instructions on the fly. Python is an interpreter. It can have interactive conversation.

A compiler needs to be handed the entire program in a file, and then it runs a process to translate the high-level source code into machine language and then the compiler puts the resulting machine language into a file for later execution.

Exercise4: Python interpreter

Exercise5 :>>> print 'Hello world!

Exercise6: Main memory

Exercise7: b) 44

Exercise 8: Explain each of the following using an example of a human capability:
(1) Central processing unit - brain
(2) Main Memory The main memory is like our waking consciousness - what we are thinking right now.
(3) Secondary Memory: The secondary memory is like our long-term memory. A student stores information away in his or her long-term memory while studying material in order to recall it later for quizzes, even after sleeping.
(4) Input Device: 5 senses.
(5) Output Device: facial expressions, gestures, or speech.Exercise9: the line and character that Python indicates in a syntax error may just be a starting point for your investigation.