My Python Notes

This file contain my daily record of what Python techniques learnt.

2023.04.30

First time work on the Google for Education: Python.

The resources have been download to the "C:\Users\andyw\google-python-exercises" at the ASUS Zenbook.

There was some mistake in the `hello.py` file downloaded. Parentheses are missed. After adding them the code worked.

The following codes can be executed in ASUS Zenbook.

Command line, Python interpreter and IPython

There should be some difference between running **Python interpreter** interactively and running Python programme file at the **command line**.

Command line

Enter `cmd` at the Start menu to enter the terminal.

At the **command line**, you type `python filename.py` to run the Python programme file `filename.py`.

For example, if you are at the directory which it contain the Python file, you can type the following to execute the file.

```
C:\Users\andyw\google-python-exercises>python hello.py
Hello World
```

Or you can enter the full path of the Python file if you are not at the directory which contain the file.

```
C:\Users\andyw>python C:/Users/andyw/google-python-exercises/hello.py
Hello World
```

Pyton interpreter

To run the **Python interpreter** interactively, select the Run... command from the Start menu, and type "Python".

When you type `python` or `py` at the command line, you enter the **Python interpreter** and can run Python code directly by entering code at the prompt.

For example:

```
>>> print("Hello World")
Hello World
```

On Windows, use **Ctrl-Z** and then press **Enter** to exit (on all other operating systems it's **Ctrl-D** to exit).

IPython

You type **ipython** at the start menu or at the command line launch the IPython shell.

```
C:\Users\andyw>ipython
... some message ...

In [1]:
```

You can execute arbitrary Python statements by typing them and pressing Return (or Enter).

```
In [1]: a = 5

In [2]: b = 9

In [3]: a + b
Out[3]: 14
```

You can execute a Python programme file by **%run** command and entering the full path of the Python programme file.

```
In [4]: %run C:/Users/andyw/google-python-exercises/hello.py
Hello World
```