**CS4HS 2014**

***Thursday 4 December***

***Session: 9.00am***

**Scratch assessments and beginning Python**

Resources used for Python (also PyCharm <https://www.jetbrains.com/pycharm/> )

Otago Python book and heaps tutorials on Internet

Teaching method

Wing environment

**Sequential:**

Comments

Output statements - **syntax** examples - another level of skill required

Variables

Input

Error messages

Development examples - go back to Tutorial 2 used for Scratch

Same process for planning and then documenting process for code/test/debug

Branching/Selection

Tutorial 3 - Conditional problems

Loops/iteration

Tutorial 4 - looping problems

Mini-algorithms revision

Go on to

Strings

Functions

Files

Lists

Sequential syntax examples

Test 1 - loop and comments

Test 2 - print statements

Test 3 - variables and method with formatting ouput

Text 4 - doc string

Test 6 - user input

Test 6c -format of number output

Test 7 -more number output

Test 8 - correct input statements and error messages

Test 9 - alternative output statements