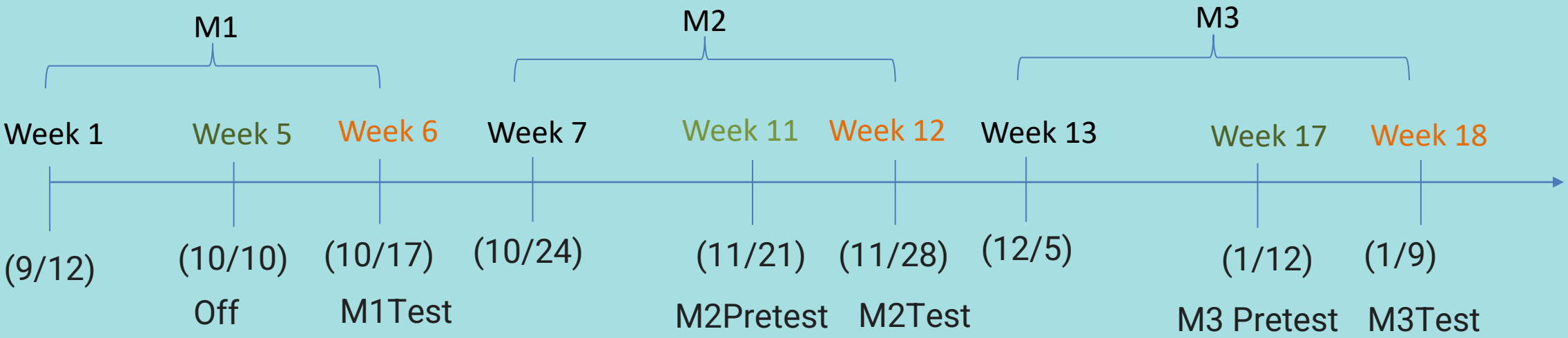
Fundamental Programming Course

Week 16

Huseh-Ting Chu@Asia University, 2022

Schedule


M1
M2
M3
Week 1
Week 5
Week 6
Week 7
Week 11
Week 12
Week 13
Week 17
Week 18
(9/12)
(10/10)
Off
(10/17)
M1Test
(10/24)
(11/21)
M2Pretest
(11/28)
M2Test
(12/5)
(1/12)
M3 Pretest
(1/9)
M3Test

Syllabus

- W1-Python Introduction and Programming Tools
- W2-Variables and Operations
- W3-Loop and formatted output
- W4-Condition and Containers
- W5-String and built-in functions
- W6-M1 test
- W07-Dictionary Container
- W08-File I/O
- W09-Function
- W10-Advanced flow control
- W11-Advanced operations and generators
- W12-M2 test

- W13-Advanced functions (definitions and calls, Recursion)
- W14-Class fundamentals (classes, objects, properties, constructors, methods)
- W15-Advanced Classes (Static methods, class Methods and class decorators)
- W16-Modules and Packages
- W17-Advanced programming(Argparse and Venv)
- W18-M3 test

Week 16 topics

- Week16-Module and Package
  - Topic 1-Module
  - Topic 2-Package
  - Topic 3-Install a package
  - Topic 4-Time related packages
  - Topic 5-Virtual Environment

Topic 1-Module

- A module is a file containing Python definitions and statements.

- A module can contain executable statements as well as function definitions.

Topic 2-Package

- Packages are a way of structuring Python's module namespace by using "dotted module names".
- The Python Package Index (PyPI) is a repository of software for the Python programming language. https://pypi.org/
- When importing a package, Python searches the directories in sys.path looking for subdirectories of the package.

Topic 3-Install a package

- pip is the package installer for Python. You can use pip to install packages from the Python Package Index and other indexes.

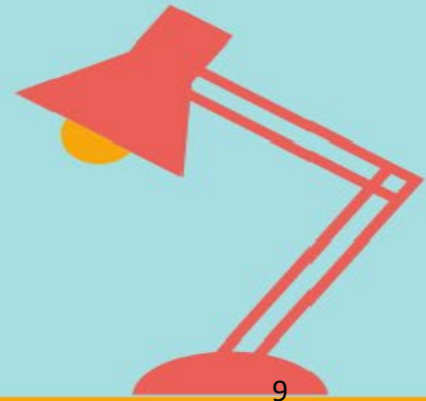
- Many Python distributions such as Anaconda come with pip pre-installed.

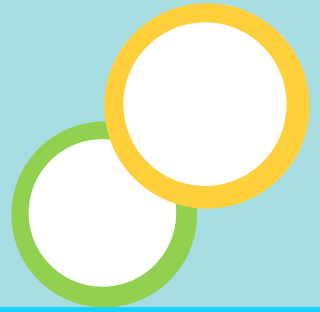
Topic 4- time packages

- time
- datetime
- pytz
- calendar

Topic 5-Virtual Environment

- 建立虛擬環境
- 啟動虛擬環境
- 離開虛擬環境
- freeze版本匯出



Thanks!

Q&A