pytest as a Start 請照著投影片的操作做一遍

黃色框框是請你輸入的指令緣色框框通常是應獲得的輸出

15 mins

· 確認 python 已安裝

· 確認 pip 已安裝 你安裝的 python 夠新應該沒有問題

```
PS D: \> pip
Usage:
 C:\Users\vpcheng\AppData\Local\Microsoft\WindowsApps\PythonSoftwareFoundation.Python.3.11 qbz5n2kfra
pip <command> [options]
Commands:
  install.
                              Install packages.
  download
                              Download packages.
                              Uninstall packages.
  uninstall
                              Output installed packages in requirements format.
  freeze
                              Inspect the python environment.
  inspect
                              List installed packages.
  list
                              Show information about installed packages.
  show
                              Verify installed packages have compatible dependencies.
  check
                              Manage local and global configuration.
  config
                              Search PyPI for packages.
  search
                              Inspect and manage pip's wheel cache.
  cache
  index
                              Inspect information available from package indexes.
  wheel
                              Build wheels from your requirements.
                              Compute hashes of package archives.
  hash
                              A helper command used for command completion.
  completion
                              Show information useful for debugging.
  debug
  help
                              Show help for commands.
General Options:
  -h, --help
                              Show help.
                              Let unhandled exceptions propagate outside the main subroutine, instead
  --debug
                              to stderr.
  --isolated
                              Run pip in an isolated mode, ignoring environment variables and user con
                              Allow pip to only run in a virtual environment; exit with an error other
  --require-virtualenv
  --python <python>
                              Run pip with the specified Python interpreter.
  -v, --verbose
                              Give more output. Option is additive, and can be used up to 3 times.
  -V, --version
                              Show version and exit.
                              Give less output. Option is additive, and can be used up to 3 times (cor
  -q, --quiet
                              WARNING ERROR and CRITICAL logging levels)
```

安裝 pytest

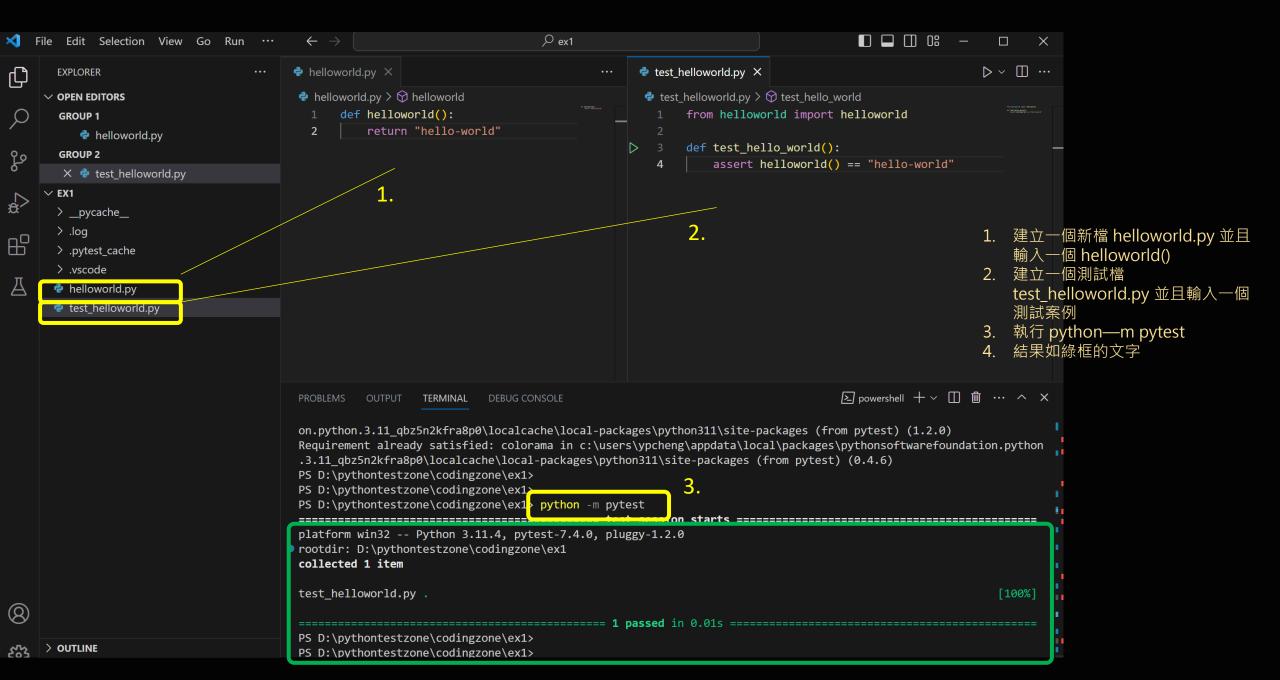
```
PS D:\>
PS D: \> pip install pytest
Collecting pytest
  Downloading pytest-7.4.0-py3-none-any.whl (323 kB)
                                                                    3/s eta 0:00:00
Collecting iniconfig (from pytest)
  Downloading iniconfig-2.0.0-py3-none-any.whl (5.9 kB)
Collecting packaging (from pytest)
  Downloading packaging-23.1-py3-none-any.whl (48 kB)
                                                                     eta 0:00:00
Collecting pluggy<2.0,>=0.12 (from pytest)
  Downloading pluggy-1.2.0-py3-none-any.whl (17 kB)
Collecting colorama (from pytest)
  Using cached colorama-0.4.6-py2.py3-none-any.whl (25 kB)
Installing collected packages: pluggy, packaging, iniconfig, colorama, pytest
  WARNING: The scripts py.test.exe and pytest.exe are installed in 'C:\Users\ypcheng\AppData\Local\Packages\PythonSoft
reFoundation.Python.3.11 qbz5n2kfra8p0\LocalCache\local-packages\Python311\Scripts' which is not on PATH.
  Consider adding this directory to PATH or, if you prefer to suppress this warning, use --no-warn-script-location.
Successfully installed colorama-0.4.6 iniconfig-2.0.0 packaging-23.1 pluggy-1.2.0 pytest-7.4.0
PS D:\> _
PS D:\>
PS D:\>
```

如果你想直接在命令列執行 pytest,請把這個路徑加到 PATH 環境變數不過我們會用 python -m pytest 來執行 pytest 就可以不做這個動作

• 把 VSCode 執行起來

```
目錄: D:\pythontestzone
Mode
                    LastWriteTime
                                           Length Name
                       下午 08:58
                                                  codingzone
            2022/10/26
                                                  hellotest
            2022/10/26
                        下午 05:07
                                                  pytest
                        上午 12:00
                                                  pytestmore
            2022/10/26
                                                  resources
            2022/10/26
                        下午 01:58
                                               69 firstexample.py
                                               65 pytest.code-workspace
            2022/10/26
                        下午 10:44
-a---
PS D:\pythontestzone> cd .\codingzone\
PS D:\pythontestzone\codingzone> dir
    目錄: D:\pythontestzone\codingzone
                    LastWriteTime
                                          Length Name
Mode
              2023/7/6 下午 08:58
                                                  ex1
PS D:\pythontestzone\codingzone> cd exl
  D:\pythontestzone\codingzone\ex1>
```





Pytest 會自動在你的目錄中尋找檔案名稱有 test 的字串的.py 來執行

test_xxxxx.py xxxxx_test.py