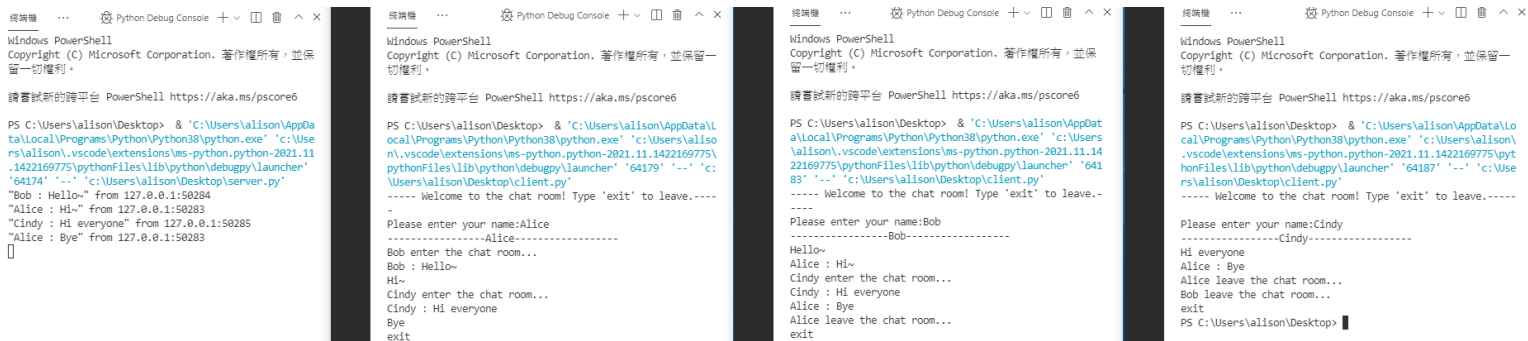


簡易多人聊天室

資工三 A 108502501 陳映璇

- 用途：允許多人同時聊天的簡易聊天室



```
Windows PowerShell
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請嘗試新的跨平台 PowerShell https://aka.ms/pscore6

PS C:\Users\alison\Desktop> & 'C:\Users\alison\AppData\Local\Programs\Python\Python38\python.exe' 'c:\Users\alison\.vscode\extensions\ms-python.python-2021.11.1422169775\pythonFiles\lib\python\debugpy\launcher' '64174' '-...' 'c:\Users\alison\Desktop\server.py'
"Bob : Hello~" from 127.0.0.1:50284
"Alice : Hi~" from 127.0.0.1:50283
"Cindy : Hi everyone" from 127.0.0.1:50285
"Alice : Bye" from 127.0.0.1:50283
[]

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PS C:\Users\alison\Desktop> & 'C:\Users\alison\AppData\Local\Programs\Python\Python38\python.exe' 'c:\Users\alison\.vscode\extensions\ms-python.python-2021.11.1422169775\pythonFiles\lib\python\debugpy\launcher' '64179' '-...' 'c:\Users\alison\Desktop\client.py'
----- Welcome to the chat room! Type 'exit' to leave.-----
Please enter your name:Alice
-----Alice-----
Bob enter the chat room...
Bob : Hello~
Hi~
Cindy enter the chat room...
Cindy : Hi everyone
Bye
exit

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PS C:\Users\alison\Desktop> & 'C:\Users\alison\AppData\Local\Programs\Python\Python38\python.exe' 'c:\Users\alison\.vscode\extensions\ms-python.python-2021.11.1422169775\pythonFiles\lib\python\debugpy\launcher' '64183' '-...' 'c:\Users\alison\Desktop\client.py'
----- Welcome to the chat room! Type 'exit' to leave.-----
Please enter your name:Bob
-----Bob-----
Hello~
Alice : Hi~
Cindy enter the chat room...
Cindy : Hi everyone
Alice : Bye
Alice leave the chat room...
exit

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PS C:\Users\alison\Desktop> & 'C:\Users\alison\AppData\Local\Programs\Python\Python38\python.exe' 'c:\Users\alison\.vscode\extensions\ms-python.python-2021.11.1422169775\pythonFiles\lib\python\debugpy\launcher' '64187' '-...' 'c:\Users\alison\Desktop\client.py'
----- Welcome to the chat room! Type 'exit' to leave.-----
Please enter your name:Cindy
-----Cindy-----
Hi everyone
Alice : Bye
Alice leave the chat room...
Bob leave the chat room...
exit
PS C:\Users\alison\Desktop> █
```

如圖，最左邊為 server，右邊三個為 client (Alice、Bob、Cindy)

client 數量不限，可隨時加入、離開聊天室，狀態會同步顯示在其他

client 的畫面上

- 使用語言：Python

- 技術：

1. `s = socket.socket(socket.AF_INET, socket.SOCK_DGRAM)`

類型：IPv4

傳輸手段：UDP

2. Multithreading：實現多個 client 之間的通訊

(詳細解釋於程式碼有附加註解)