在Mac上執行 Calculator和Plotter程式

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安裝套件

- 打開terminal
- 確認tkinter套件已安裝
 - \$ python3
 - >>> import tkinter
 - >>>
- 安裝pillow套件
 - \$ pip3 install pillow
- 安裝matplotlib套件
 - \$ pip3 install matplotlib
- 確認套件已安裝
 - \$ python3
 - >>> import PIL
 - >>> import matplotlib
 - >>>

```
[(venv) Alicias-MacBook-Air:tkinter aliciatsai$ python3
Python 3.6.2 (v3.6.2:5fd33b5926, Jul 16 2017, 20:11:06)
[GCC 4.2.1 (Apple Inc. build 5666) (dot 3)] on darwin
Type "help", "copyright", "credits" or "license" for more information.
[>>> import tkinter
[>>> import PIL
[>>> import matplotlib
>>> |
```

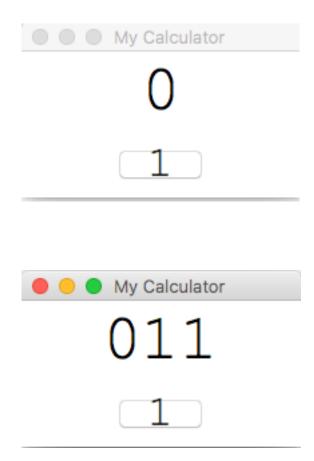
eg1.py

- 執行eg1.py
 - \$python3 eg1.py



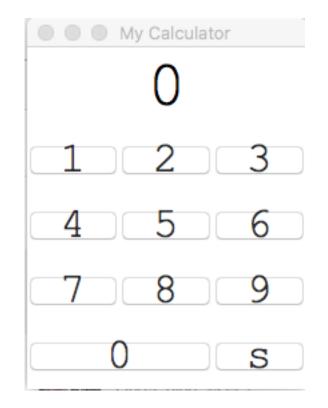
Calculator1.py

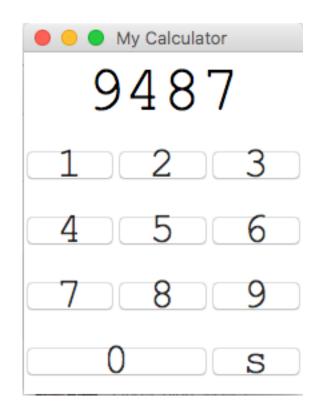
- 執行Calculator1.py
 - \$ python3 Calculator1.py



Calculator2.py

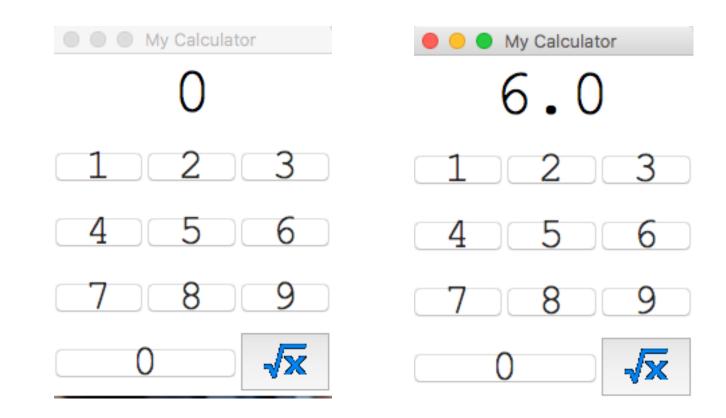
- 執行Calculator2.py
 - \$ python3 Calculator2.py





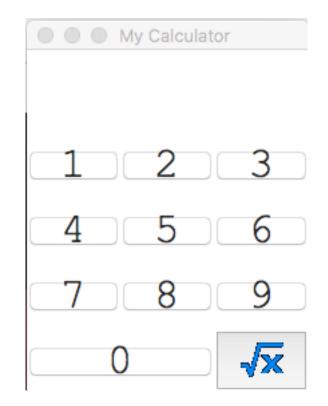
Calculator3.py

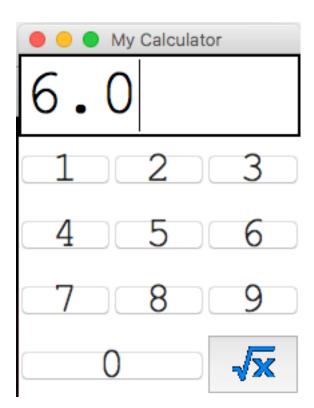
- 執行Calculator3.py
 - \$ python3 Calculator3.py



Calculator4.py

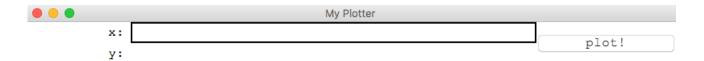
- 執行Calculator4.py
 - \$ python3 Calculator4.py





Plotter1.py

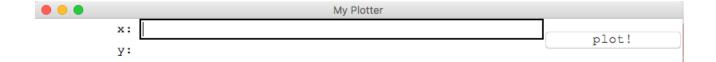
- 執行Plotter1.py
 - \$ python3 Plotter1.py
- 逗號後面請勿加空白!

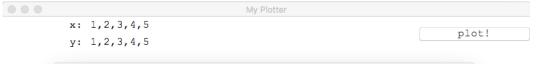


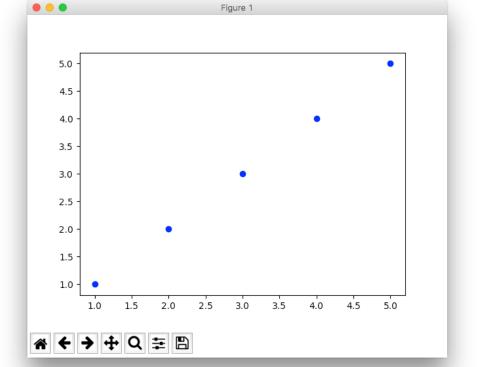
My Plotter
x: 1,2,3,4,5
y: [1,2,3,4,5]
plot!

Plotter2.py

- 修改Plotter2.py
 - 在最上面加入以下兩行程式碼
 - import matplotlib
 - matplotlib.use("TkAgg")
- 執行Plotter2.py
 - \$ python3 Plotter2.py
- 逗號後面請勿加空白!

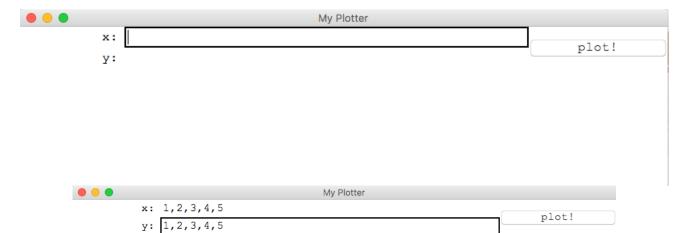


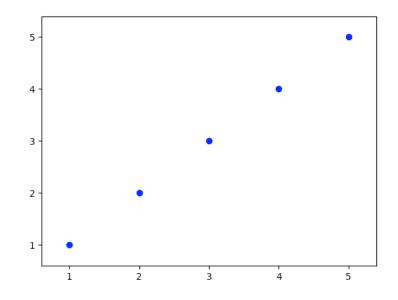




Plotter3.py

- 修改Plotter3.py
 - 在最上面加入以下兩行程式碼
 - import matplotlib
 - matplotlib.use("TkAgg")
- 執行Plotter3.py
 - \$ python3 Plotter3.py
- 逗號後面請勿加空白!





Plotter4.py

- 修改Plotter3_coordinate.py
 - 在最上面加入以下兩行程式碼
 - import matplotlib
 - matplotlib.use("TkAgg")
- 強制停止執行Plotter3.py
 - 關掉Plotter3 GUI
 - Terminal會出現sh: del: command not found
 - 按Control + C 強制關閉
 - 重新回到terminal (會看到\$)
- 執行Plotter3_coordinate.py
 - \$ python3 Plotter3_coordinate.py
- 逗號後面請勿加空白!

