# Jupyter Notebook

# Start


- 從 Anaconda 開啟 Jupyter Notebook 會跑出命令提示字元的視窗
- 會在Google中開啟網頁

# DIR

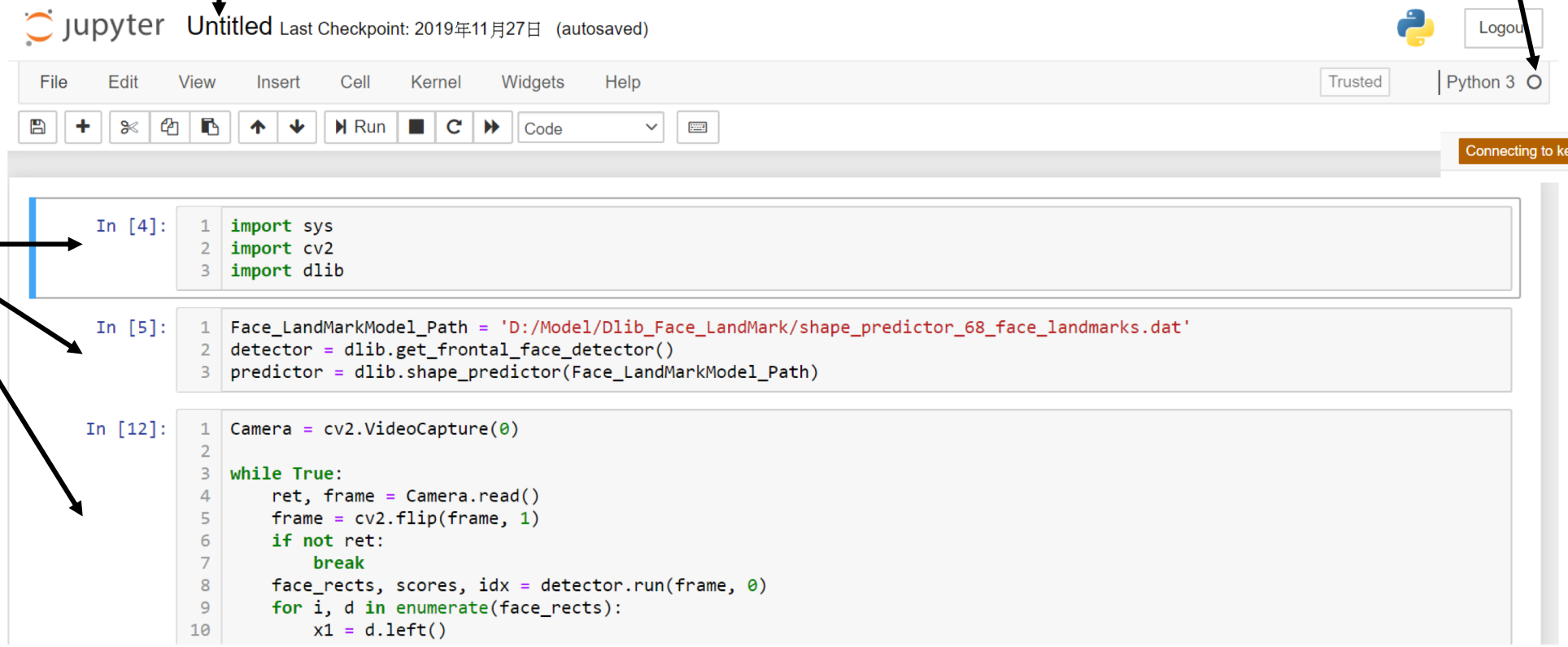
- 開啟後右上角會有一個New可以新增python ipynb檔
- Upload可以從別處上傳檔案到這個地方
- 開啟的預設路徑皆為使用者底下目錄


更改起始目錄:
1.開啟 Anaconda 命令提示字元
2.輸入jupyter notebook --generate-config
3.輸入時會跟你講位址要記住
4.找到jupyter_notebook_config.py以txt開啟
5.用ctrl + F找到
## The directory to use for notebooks and kernels.
#c.NotebookApp.notebook_dir = '' ''
6.把#拿掉並輸入自己想預設的位置例如下
## The directory to use for notebooks and kernels.
c.NotebookApp.notebook_dir = ' D:\Python '
7.重啟即可

# Interface

一整個叫一個Kernel
有連接到系統會顯示圓圈
沒有連接到系統會顯示斷裂error
通常跳出斷裂為不小心把
命令提示字元視窗關閉重啟即可

點一下可以重新命名

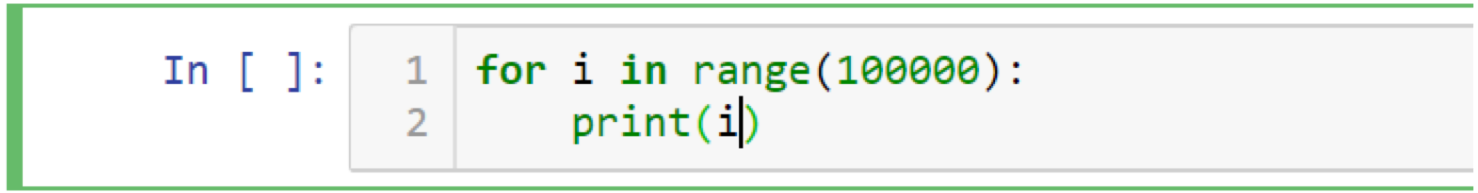



稱為Cell

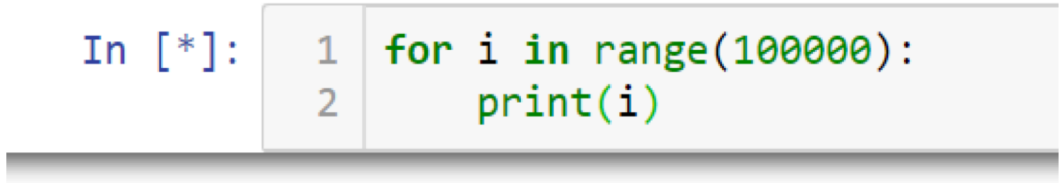
# Hot Key

四個常用快捷鍵
1.Shift + Enter 執行
2.Esc + a 上方加入cell
3.Esc + b 下方加入cell
4.Esc + d + d (ESC案住D雙擊)
查詢其他快捷指令用esc + h

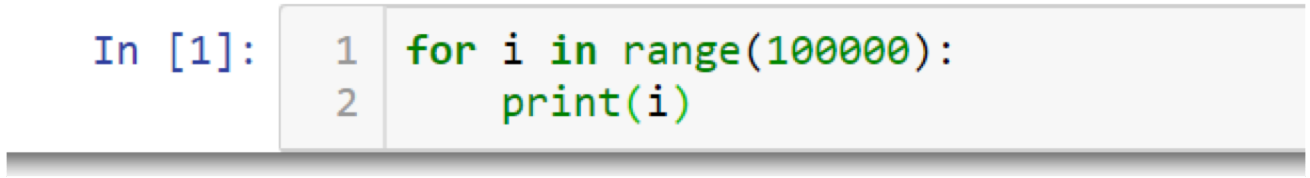
Cell未執行過



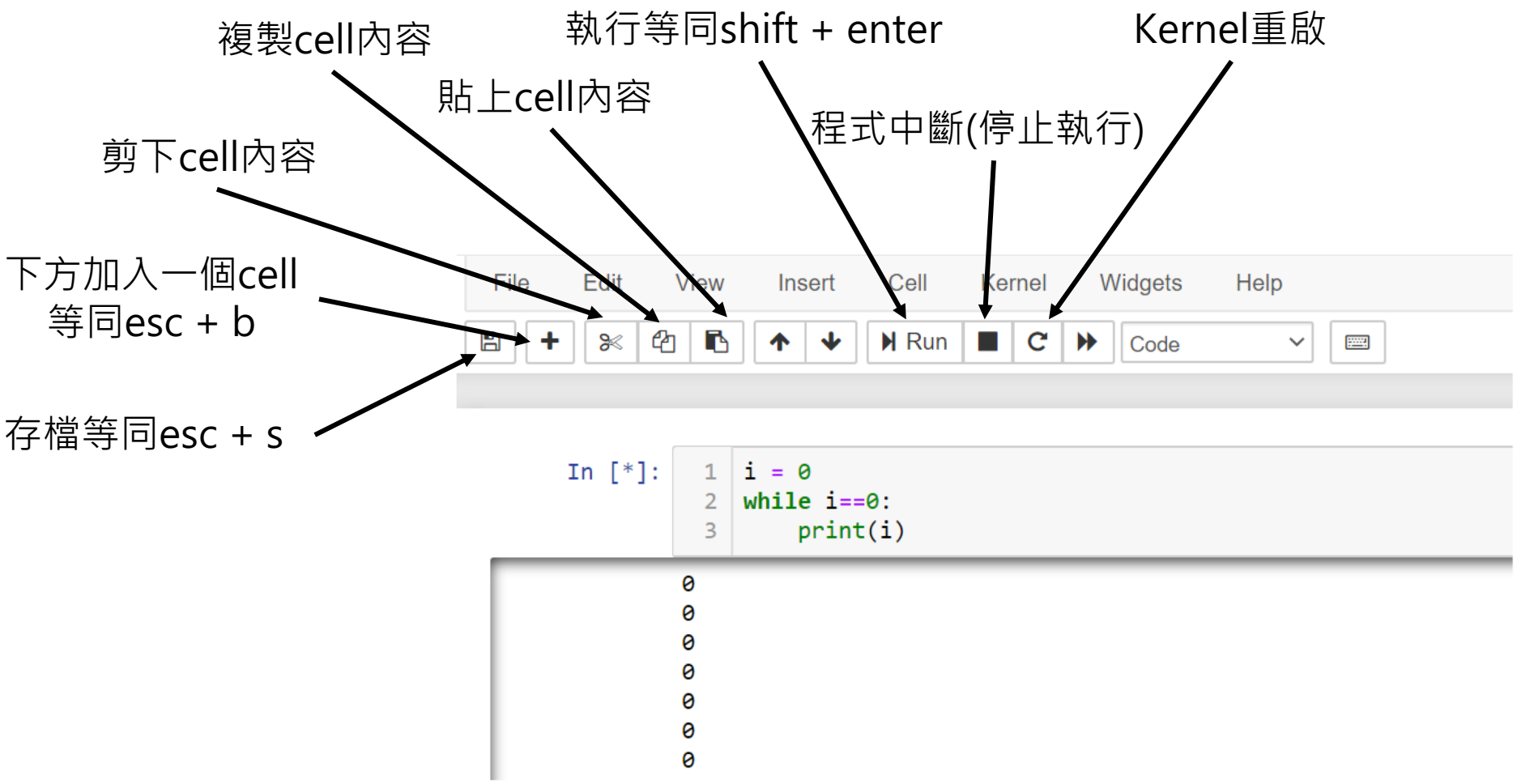

Cell執行中顯示*




Cell執行完畢顯示這個kernel執行完畢幾次



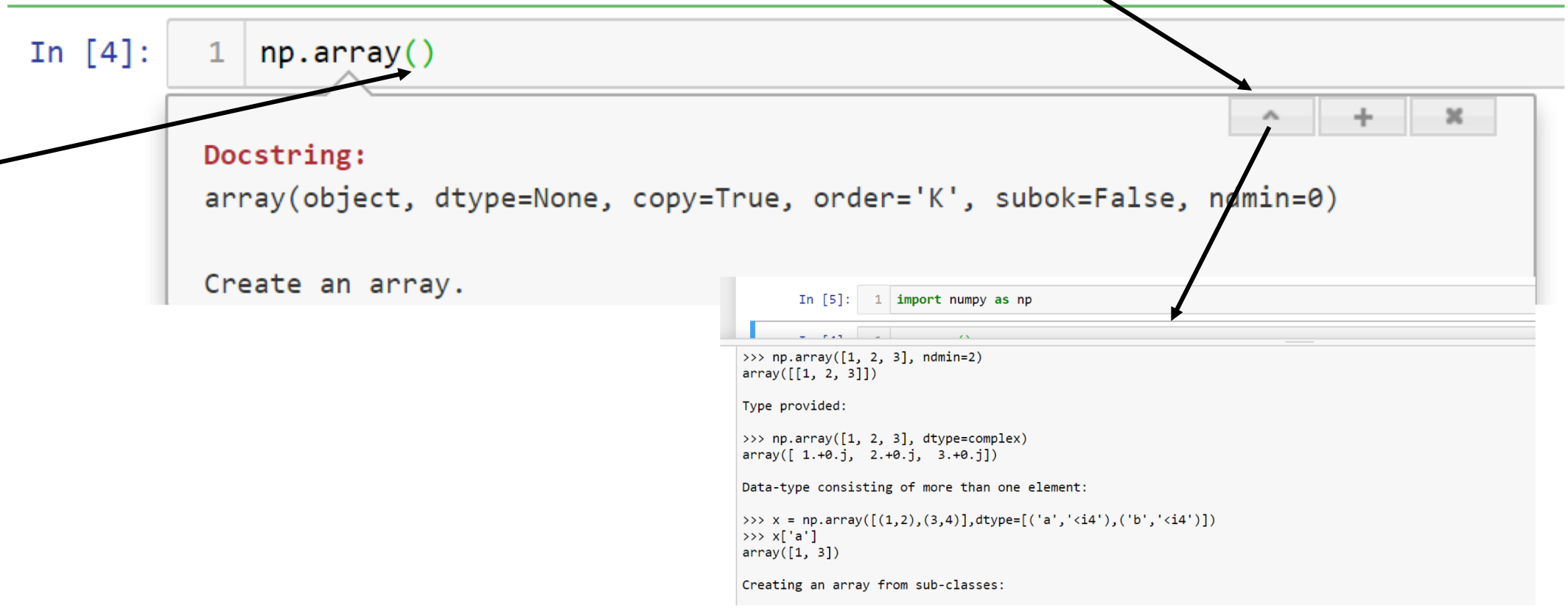
# Interface


複製cell內容
貼上cell內容
剪下cell內容
下方加入一個cell
等同esc + b
存檔等同esc + s
執行等同shift + enter
程式中斷(停止執行)
Kernel重啟
File
Edit
View
Insert
Cell
Kernel
Widgets
Help
Run
Code
In [*]:
1 i = 0
2 while i==0:
3 print(i)
0
0
0
0
0
0
0
0

# Docstring

詳細註解

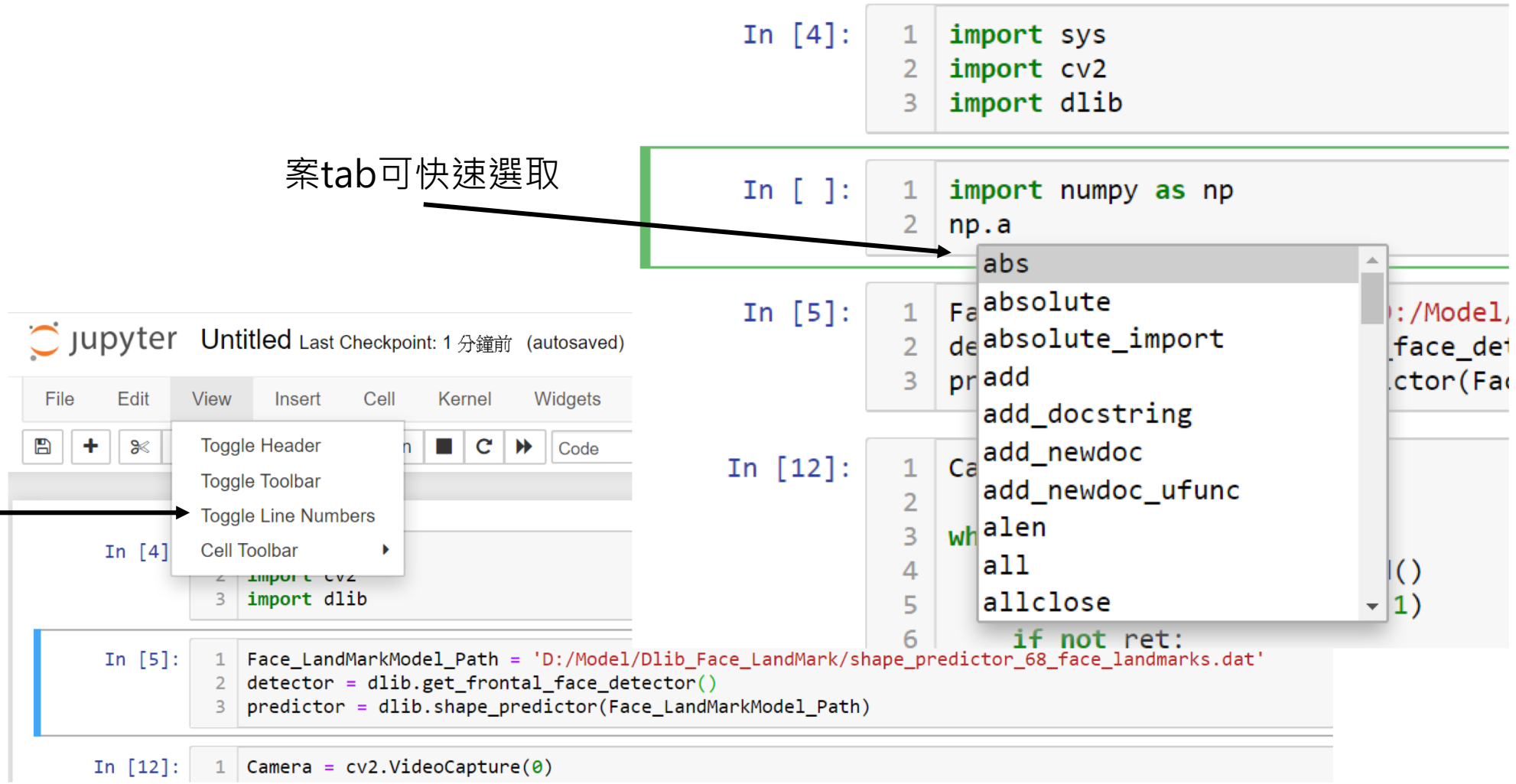
在括號內案 shift + tab 可以顯示註解及使用方式(看該人員是否有註解使用方式)



# Convenient

案tab可快速選取

顯示行數Debug好用

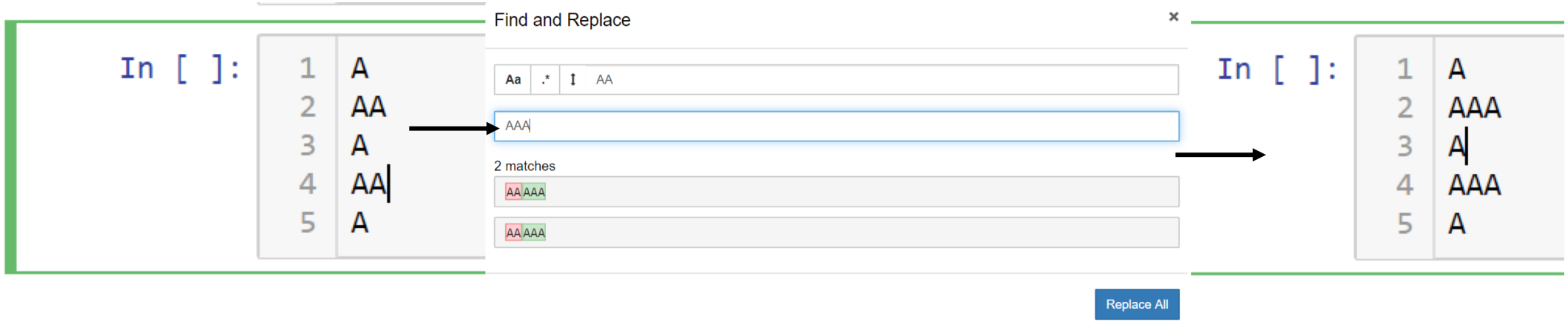


# Editor

同時縮排/反縮排:
在要縮排的區域反白
後按TAB會同時縮排
Shift + TAB 則可以同時反縮排

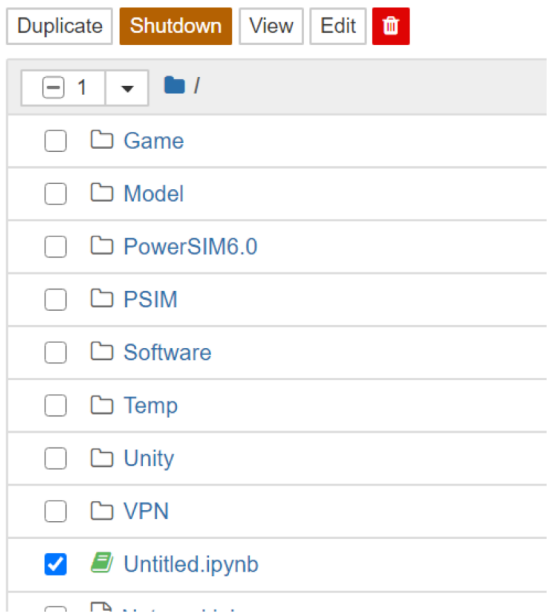
```
while True:
    ret, frame = Camera.read()
    frame = cv2.flip(frame, 1)
    if not ret:
        break
    face_rects, scores, idx = detector.run(frame, 0)
    for i, d in enumerate(face_rects):
```

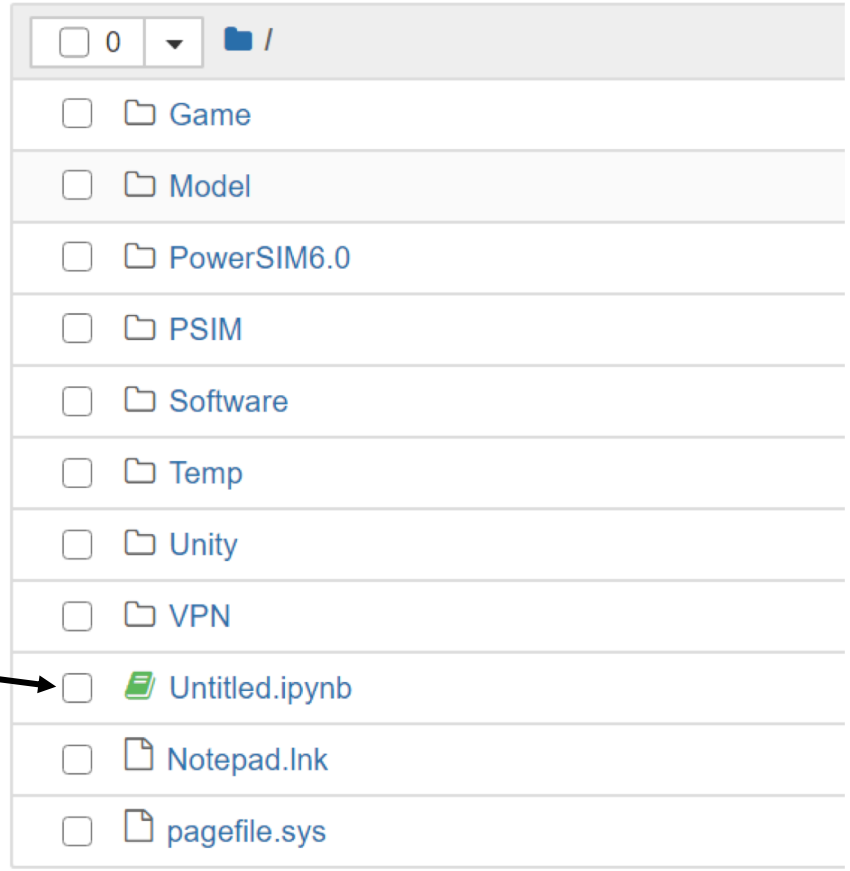
取代:
Esc + F可以取代



# Shutdown

儲存後關掉並不會結束kernel
勾選後選擇shutdown結束kernel




結束kernel後就不會亮著