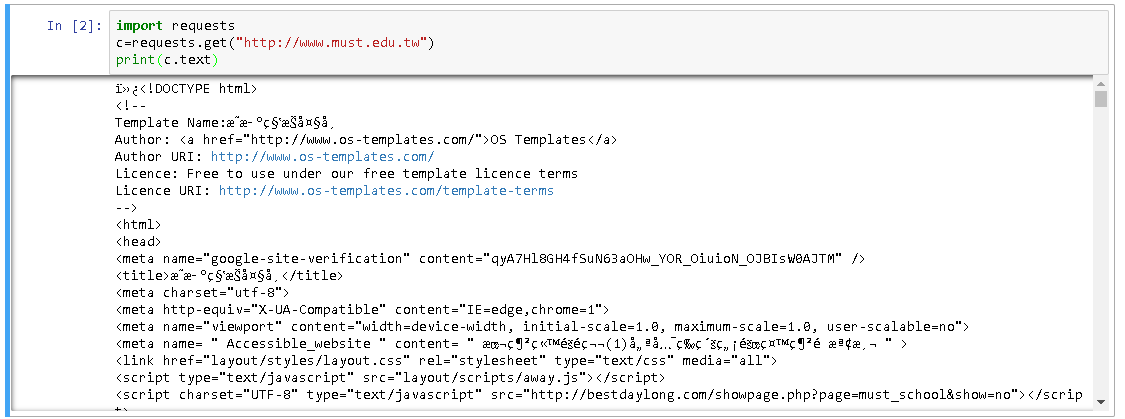
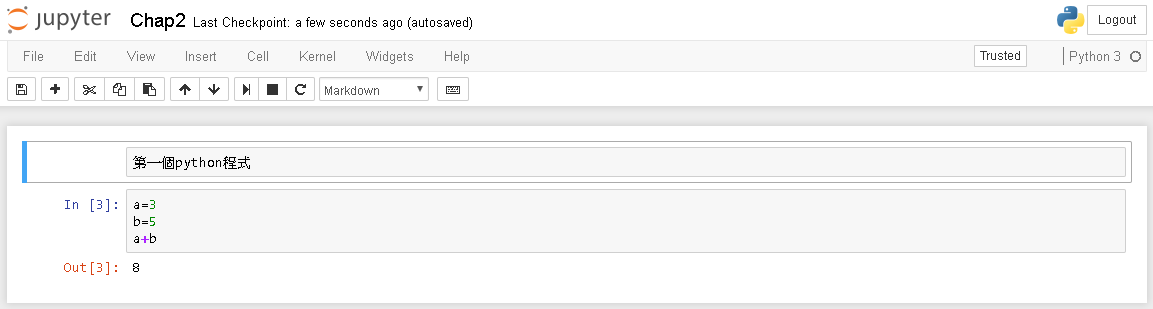
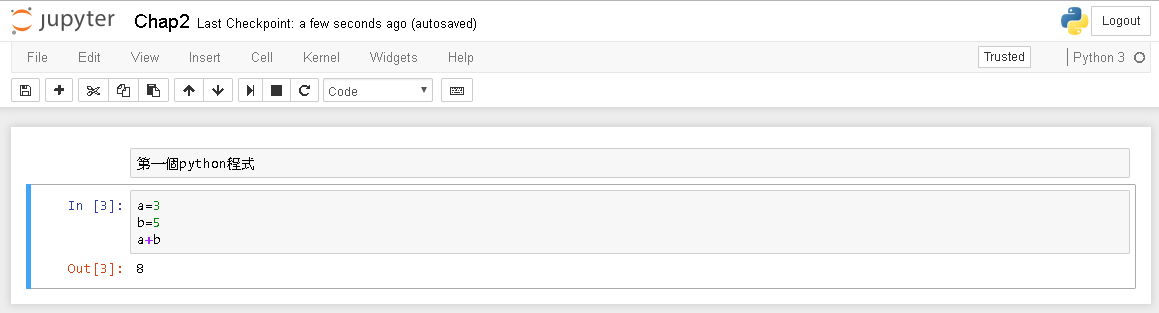
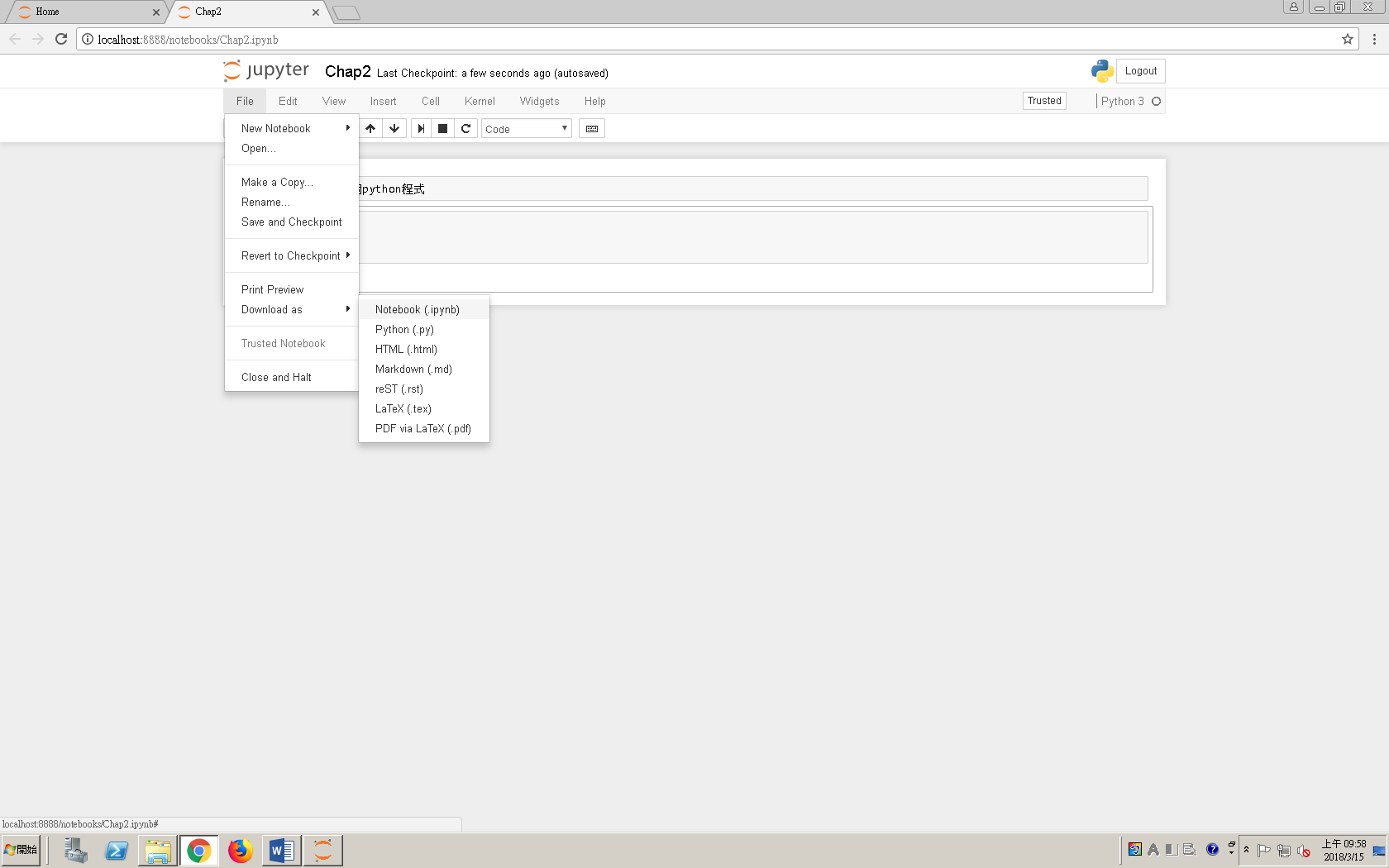
shift+enter執行



0315 儲存檔案



註解



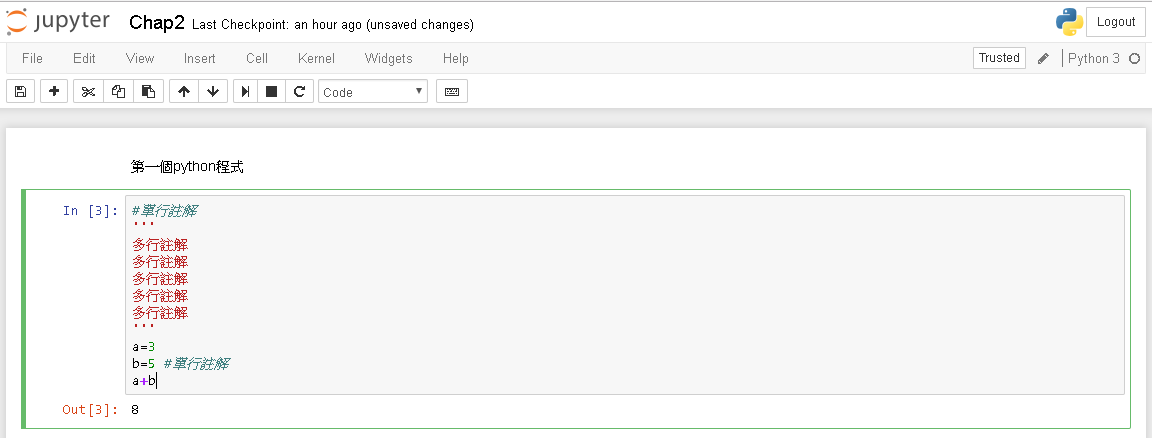
開舊檔

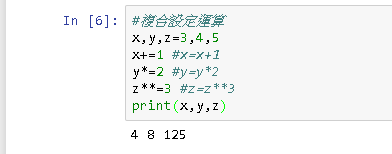
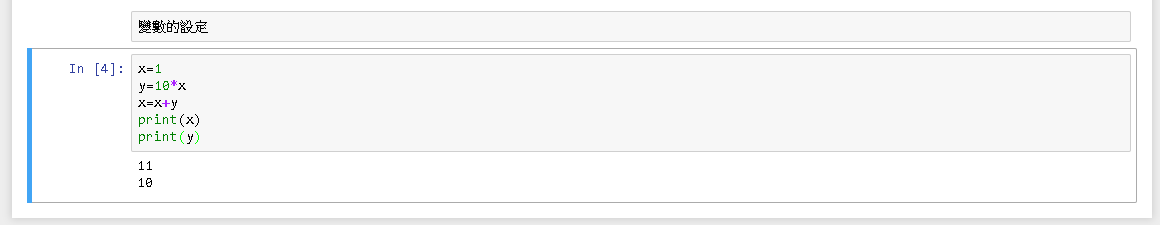


**註解**

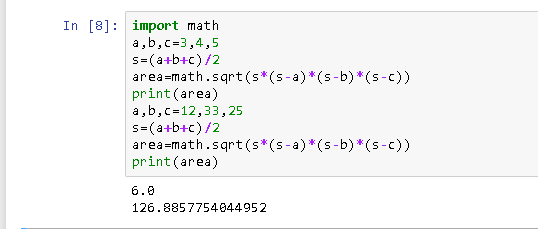
#單行

‘’’ 3個單引號多行註解



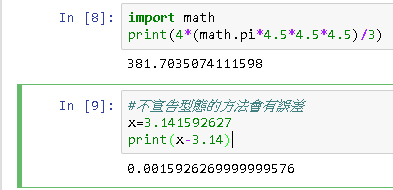
 z\*\*3 表z的3次方

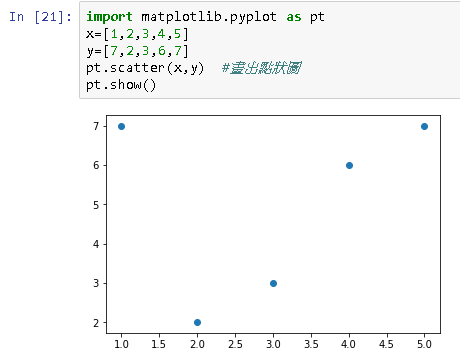
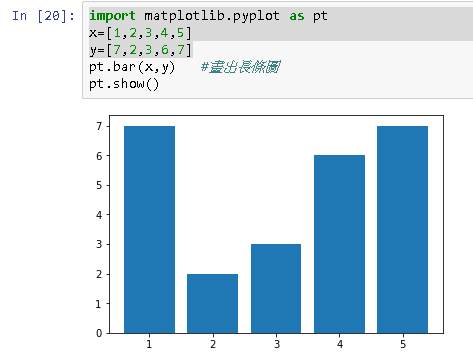
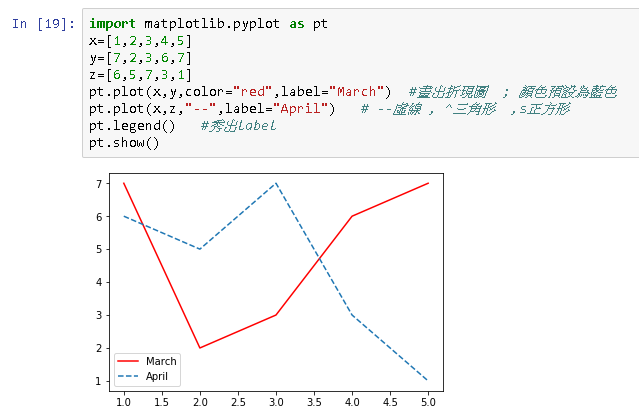
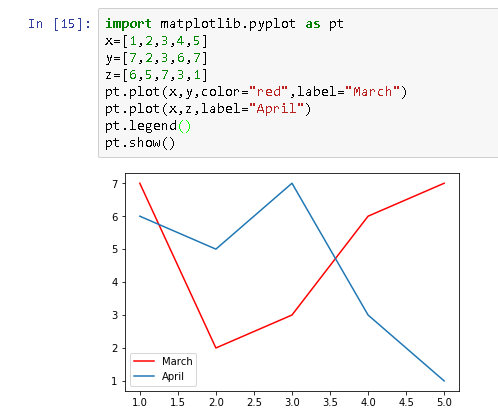
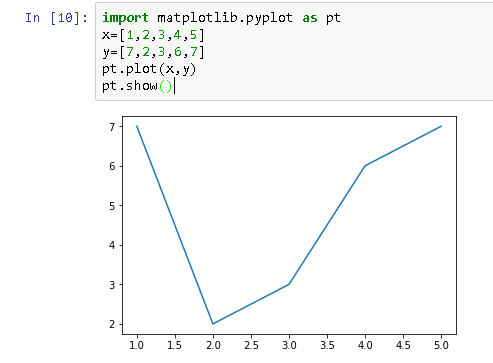
三角形的面積

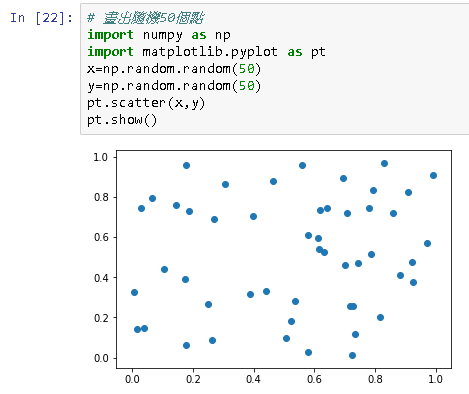


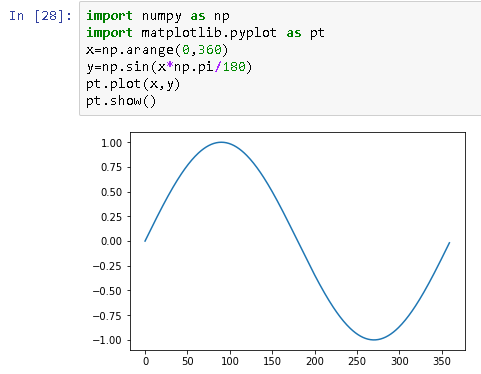
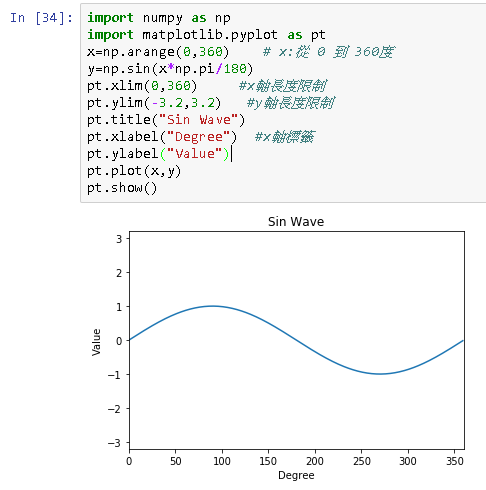
0322

Python不需要宣告變數型態

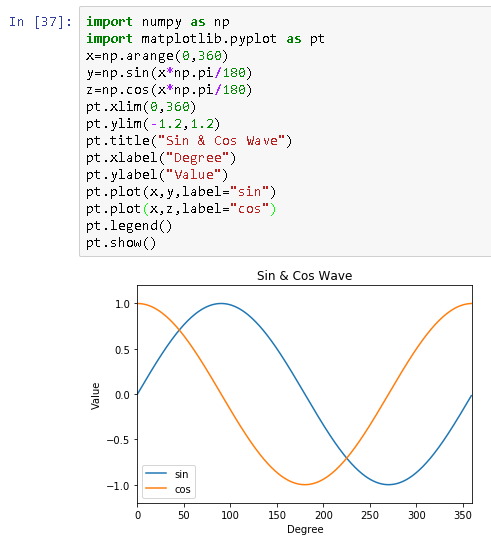
 





Sin 曲線

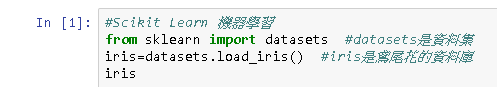


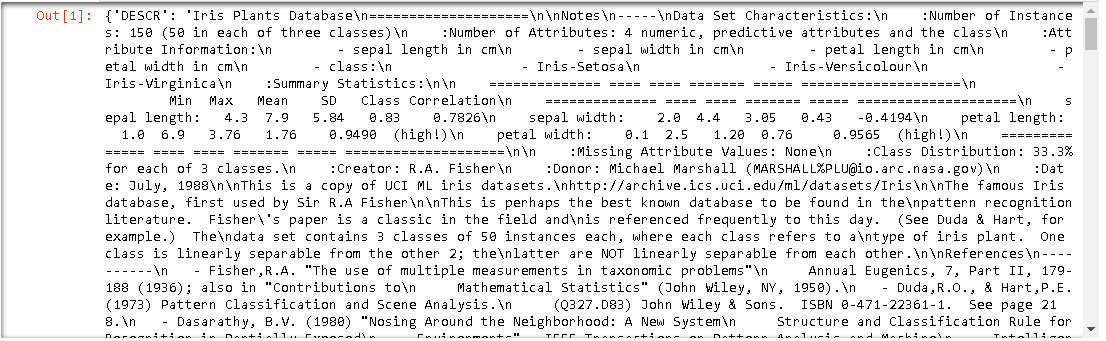
Sin 加 Cos 曲線

0329

<http://scikit-learn.org/>

機器學習網站







Iris Plants Database

====================

Notes

-----

Data Set Characteristics:

:Number of Instances: 150 (50 in each of three classes)

:Number of Attributes: 4 numeric, predictive attributes and the class

:Attribute Information:

- sepal length in cm

- sepal width in cm

- petal length in cm

- petal width in cm

- class:

- Iris-Setosa

- Iris-Versicolour

- Iris-Virginica

:Summary Statistics:

============== ==== ==== ======= ===== ====================

Min Max Mean SD Class Correlation

============== ==== ==== ======= ===== ====================

sepal length: 4.3 7.9 5.84 0.83 0.7826

sepal width: 2.0 4.4 3.05 0.43 -0.4194

petal length: 1.0 6.9 3.76 1.76 0.9490 (high!)

petal width: 0.1 2.5 1.20 0.76 0.9565 (high!)

============== ==== ==== ======= ===== ====================

:Missing Attribute Values: None

:Class Distribution: 33.3% for each of 3 classes.

:Creator: R.A. Fisher

:Donor: Michael Marshall (MARSHALL%PLU@io.arc.nasa.gov)

:Date: July, 1988

This is a copy of UCI ML iris datasets.

http://archive.ics.uci.edu/ml/datasets/Iris

The famous Iris database, first used by Sir R.A Fisher

This is perhaps the best known database to be found in the

pattern recognition literature. Fisher's paper is a classic in the field and

is referenced frequently to this day. (See Duda & Hart, for example.) The

data set contains 3 classes of 50 instances each, where each class refers to a

type of iris plant. One class is linearly separable from the other 2; the

latter are NOT linearly separable from each other.

References

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- Fisher,R.A. "The use of multiple measurements in taxonomic problems"

Annual Eugenics, 7, Part II, 179-188 (1936); also in "Contributions to

Mathematical Statistics" (John Wiley, NY, 1950).

- Duda,R.O., & Hart,P.E. (1973) Pattern Classification and Scene Analysis.

(Q327.D83) John Wiley & Sons. ISBN 0-471-22361-1. See page 218.

- Dasarathy, B.V. (1980) "Nosing Around the Neighborhood: A New System

Structure and Classification Rule for Recognition in Partially Exposed

Environments". IEEE Transactions on Pattern Analysis and Machine

Intelligence, Vol. PAMI-2, No. 1, 67-71.

- Gates, G.W. (1972) "The Reduced Nearest Neighbor Rule". IEEE Transactions

on Information Theory, May 1972, 431-433.

- See also: 1988 MLC Proceedings, 54-64. Cheeseman et al"s AUTOCLASS II

conceptual clustering system finds 3 classes in the data.

- Many, many more ...

['sepal length (cm)', 'sepal width (cm)', 'petal length (cm)', 'petal width (cm)']

[[ 5.1 3.5 1.4 0.2]

[ 4.9 3. 1.4 0.2]

[ 4.7 3.2 1.3 0.2]

[ 4.6 3.1 1.5 0.2]

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[ 7.7 3.8 6.7 2.2]

[ 7.7 2.6 6.9 2.3]

[ 6. 2.2 5. 1.5]

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[ 7.7 3. 6.1 2.3]

[ 6.3 3.4 5.6 2.4]

[ 6.4 3.1 5.5 1.8]

[ 6. 3. 4.8 1.8]

[ 6.9 3.1 5.4 2.1]

[ 6.7 3.1 5.6 2.4]

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2 2]

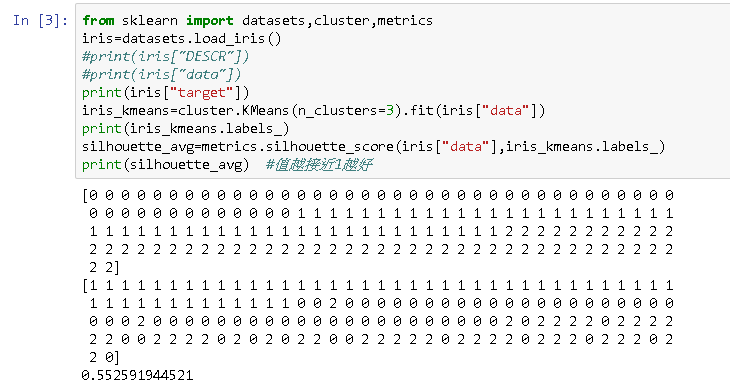
0412 scikit learn & KMeans演算法0412-1



有些錯

正確

0412-2



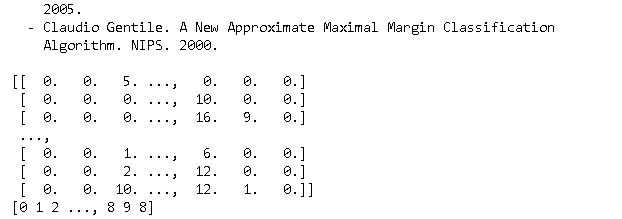
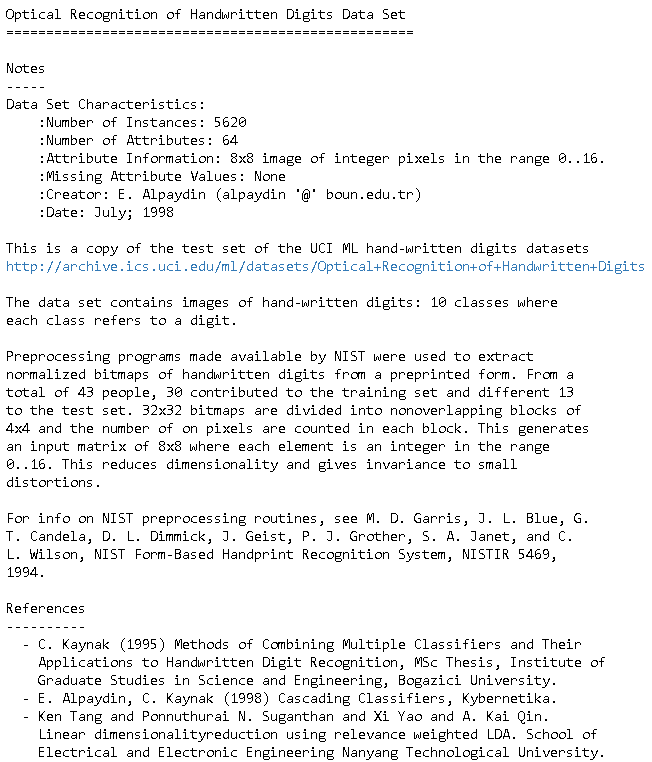
續上，利用silhouette觀察分成幾類最接近正確值，結果越接近1越好

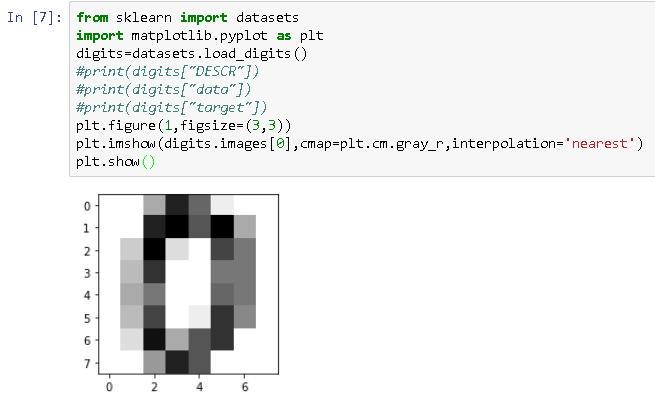


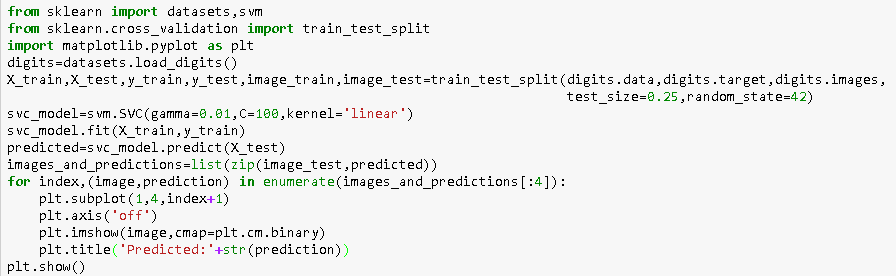
續上，用silhouette和迴圈觀察要分成幾類材最接近正確值。

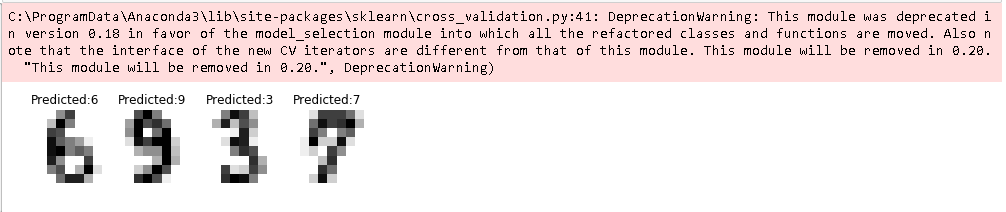
所以分2類最接近

svm分群法









0503

註冊github帳號

