

## Numerical Method

National Cheng Kung University

Department of Engineering Science

Instructor: Chi-Hua Yu

### Lab 1

**Programming, Due 10:00, Wednesday, February 23<sup>th</sup>, 2022**

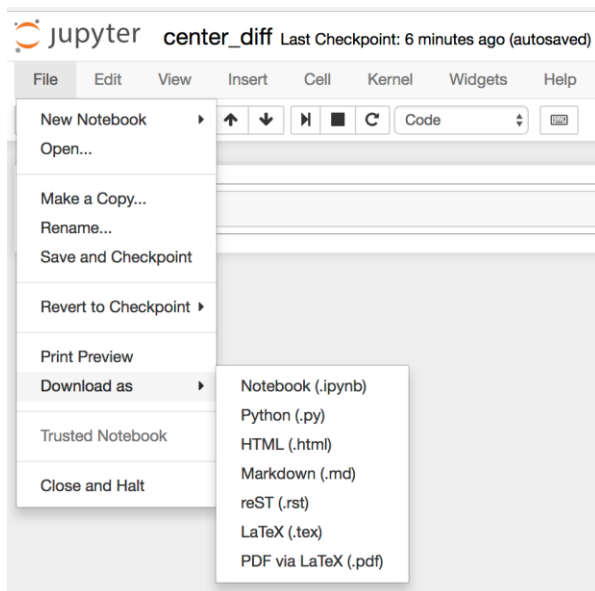
注意事項：

1. Lab 的時間為授課結束(Lab 當天 10:00)。
2. Lab 的分數分配：出席 20%，Lab 分數 80%，Bonus 50%。
3. 請盡量於 Lab 時段完成練習，完成後請找助教檢查，經助教檢查後沒問題者請用你的學號與 Lab number 做一個檔案夾 (e.g., N96091350\_Lab1), 將你的全部 ipynb 檔放入檔案夾，壓縮後上傳至課程網站 (e.g., N96091350\_Lab1.zip)。
4. 上傳後即可離開。
5. 未完成者可於隔日 11:55 pm 前上傳至 Moodle，惟補交的分數將乘以 0.8 計，超過期限後不予補交。
6. Bouns 只需要在每週四的 11:55 pm 上傳即可。

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#### Lab Submission Procedure (請仔細閱讀)

1. You should submit your Jupyter notebook and Python script (\*.py, in Jupyter, click File, Download as, Python (\*.py)).



2. Name a folder using your student id and lab number (e.g., n96081494\_lab1), put all the python scripts into the folder and zip the folder (e.g., n96081494\_lab1.zip).
3. Submit your lab directly through the course website.

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1. (80%) Name your Jupyter notebook `lb2oz2kg_table` and Python script `lb2oz2kg_table.py`. Write a Python program that prints out a table with 1, 2, 3, ..., 10 lbs in the first column; the corresponding ounce prints in the second column; and the third column lists the corresponding kilogram. Below is the sample output:

```
lb  oz  kg
1,  16, 0.45359
2,  32, 0.90718
3,  48, 1.36077
4,  64, 1.81436
5,  80, 2.26795
6,  96, 2.72154
7, 112, 3.17513
8, 128, 3.62872
9, 144, 4.08231
10, 160, 4.53590
```

- Bonus (20%):** Name your Jupyter notebook `calculate` and Python script `calculate.py`. Write a Python program that prompts the user to input two integers. Use Python to calculate the value of the first integer divided by the second one. Please print the quotient and remainder separately. Below is a sample output:

```
Enter first integer:20
Enter second integer:3
Quotient: 6, Remainder: 2
```