111-2進階程式設計課程說明
Advanced Computer Programming

亞大資工系

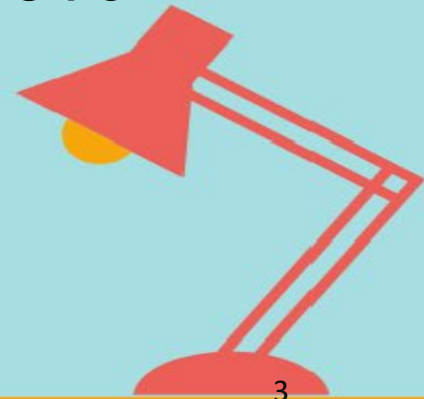# 大綱

- 課程規定
- 課程大綱
- 教材
- 工具

課程規定

- 期中是個人成績、期末是分組成績

- 期中作業: Web Crawler

- 期末作業: Web App on PythonAnywhere

- 成績計算:平時成績40%+期中成績30%+期末成績30%

課程大綱

- W1-課程介紹/Introduction

- W2-Python libraries

- W3-BeautifulSoup(1)

- W4-BeautifulSoup(2)

- W5-Scrapy(1)

- W6-Scrapy(2)

- W7-Storing Data

- W8-Project development(1)

- W9-Midterm presentation

- W10-Web & HTTP

- W11-Flask

- W12-Flask Routes

- W13-Jinja template

- W14-Flask-form

- W15-Flask-mail

- W16-REST API

- W17-Project development(2)

- W18-Final presentation

教材Github

https://github.com/htchu/ACP111Course

Colab+Github

ACP111_W1_Q1.ipynb

檔案 編輯 檢視畫面 插入 執行階段 工具 說明

+ 程式碼 + 文字 複製到雲端硬碟

Q1 : Check Python 3 reference cheat sheet for beginners, then write a program to print out the multiplication table

```
1 × 1 = 1      2 × 1 = 2      3 × 1 = 3      4 × 1 = 4      5 × 1 = 5
1 × 2 = 2      2 × 2 = 4      3 × 2 = 6      4 × 2 = 8      5 × 2 = 10
1 × 3 = 3      2 × 3 = 6      3 × 3 = 9      4 × 3 = 12     5 × 3 = 15
1 × 4 = 4      2 × 4 = 8      3 × 4 = 12     4 × 4 = 16     5 × 4 = 20
1 × 5 = 5      2 × 5 = 10     3 × 5 = 15     4 × 5 = 20     5 × 5 = 25
1 × 6 = 6      2 × 6 = 12     3 × 6 = 18     4 × 6 = 24     5 × 6 = 30
1 × 7 = 7      2 × 7 = 14     3 × 7 = 21     4 × 7 = 28     5 × 7 = 35
1 × 8 = 8      2 × 8 = 16     3 × 8 = 24     4 × 8 = 32     5 × 8 = 40
1 × 9 = 9      2 × 9 = 18     3 × 9 = 27     4 × 9 = 36     5 × 9 = 45
1 ×10 = 10     2 ×10 = 20     3 ×10 = 30     4 ×10 = 40     5 ×10 = 50

6 × 1 = 6      7 × 1 = 7      8 × 1 = 8      9 × 1 = 9      10 × 1 = 10
6 × 2 = 12     7 × 2 = 14     8 × 2 = 16     9 × 2 = 18     10 × 2 = 20
6 × 3 = 18     7 × 3 = 21     8 × 3 = 24     9 × 3 = 27     10 × 3 = 30
6 × 4 = 24     7 × 4 = 28     8 × 4 = 32     9 × 4 = 36     10 × 4 = 40
6 × 5 = 30     7 × 5 = 35     8 × 5 = 40     9 × 5 = 45     10 × 5 = 50
6 × 6 = 36     7 × 6 = 42     8 × 6 = 48     9 × 6 = 54     10 × 6 = 60
6 × 7 = 42     7 × 7 = 49     8 × 7 = 56     9 × 7 = 63     10 × 7 = 70
6 × 8 = 48     7 × 8 = 56     8 × 8 = 64     9 × 8 = 72     10 × 8 = 80
6 × 9 = 54     7 × 9 = 63     8 × 9 = 72     9 × 9 = 81     10 × 9 = 90
6 ×10 = 60     7 ×10 = 70     8 ×10 = 80     9 ×10 = 90     10 ×10 = 100
```

https://colab.research.google.com/github/htchu/ACP111Course/blob/main/Notebook/ACP111_W1_Q1.ipynb

Tools

- Colab, Github, VSC

- PythonAnywhere: Host, run, and code Python in the cloud
  - https://www.pythonanywhere.com/

Thanks! Q&A