Python Programming and Interactive Game Design

08/02/2021

Lab 4

Due 12:00, Friday, August 2, 2021

No Late Submission

注意事項:

- 1. Lab 的時間為授課結束後至下午一點。
- 2. Lab 的分數分配:出席 20%, 兩題練習 80%, Bonus 50%。
- 3. 請儘量於 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),將你的全部檔案 放入檔案夾, 壓縮後上傳至課程網站(e.g., N96091350Lab3.zip)。
- 4. 上傳後即可離開。
- 5. 未完成者可於隔日 11:55 am 前上傳至 Moodle,逾期不受理。

Exercise 1 (40%): Open the file "menu.py" and complete the class UpgradeMenu() to show the upgrade menu of the tower. Below is the sample run:



Exercise 2 (40%): Continued from the previous question, complete the entire class <code>Button()</code> to show the "upgrade" button and "sell" button on the menu. (Notice that after you finish the part of class <code>Button()</code>, add the button objects into <code>self.__buttons</code>). Below is the sample run: Below is the sample run:



Hint:

1. Using rect.collidepoint(x, y) would be easier to check whether the mouse position is on the button image.

Bonus (50%):

Continued from the previous question, complete the upgrade () and the sell () method in class TowerGroup ().

