Language Programming: Homework #1 Assigned on 09/17/2019, Due on 9/24/2019

Description:

- 1.(20%) Write a program that computes the volume of a sphere with a r-meter radius , using the formula $v=4/3\pi r^3$. This program need the user enter the radius 'r' of the sphere by vourself.(Write the fraction 4/3 as 4.0f/3.0f)
- 2.(30%) Write a program that asks the user to enter a value for x and then displays the value of the following polynomial: $3x^5+2x^4-5x^3-x^2+7x-6$

Hint:C doesn't have an exponentiation operator $\,^{,}$ so you'll need to multiply x by itself repeatedly in order to compute the power of x.(For example $\,^{,}$ X*X*X is X cubed.)

3.(40%) Modify the program of Programming Question 2 so that the polynomial is evaluated using the following formula: ((((3x+2)x-5)x-1)x+7)x-6

Note that the modified program performs fewer multiplications. This technique for evaluating polynomials is known as Horner's Rule

- **4.** (10%) Report.
- 5. (Bonus 10%) Update your report on your server.

Command Line:

./hw1 num1(You must use Parameter argc and argvt)

(注意有空白鍵隔開)

Output:

A result value. (get the second digit after the point)

Example

> ./hw1_1 2

> 33.49

Bonus

請各位從這次開始,除了要交紙本,也要將report 以電子檔的形式上傳至server

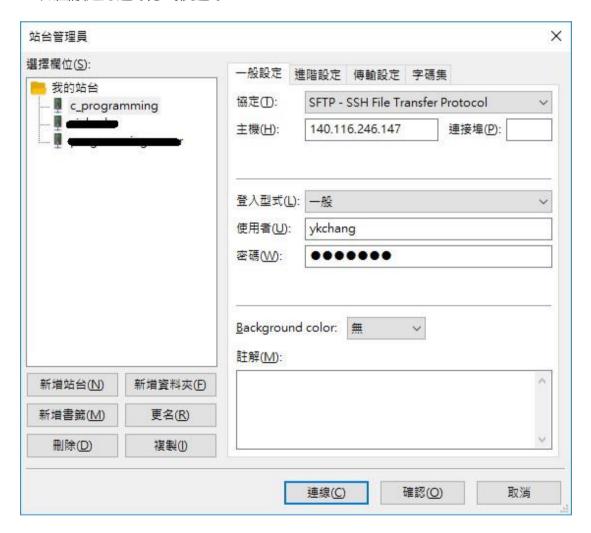
電子檔檔名格式: F74028888 王大明 HW0.docx

以下為教學, 若仍有許多不懂的地方, 下次上課後助教再實際操作一次

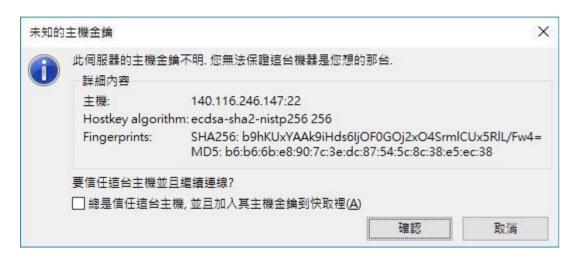
- 1. 安裝FileZilla
- 2. 連線方式: 打開FileZilla 後>檔案>站台管理員



3. 如圖設定好連線方式後連線



4. 這邊直接確認就好



5. 進到對應的目錄並上傳你的電子檔,一份作業一個電子檔

