(60 points)

* 1. (4 points) Create your personal home page (index.html) at web.chu.edu.tw. Your home page should contain three items.

<http://people.chu.edu.tw/~b10002057/>

* 1. (8 ponts) Create an HTML document of your resume, including a picture of yourself. A hypertext link to this document should be put in your personal home page. (Note: If you don't like your picture to be public, you can put some other picture instead.)

<http://people.chu.edu.tw/~b10002057/my_resume.html>

* 1. (5 points) Create an HTML document for your weekly schedule. It should include unordered and ordered lists.

<http://people.chu.edu.tw/~b10002057/my_weekly_schedule.html>

* 1. (5 points) Create an HTML document for a game competition schedule. Choose a game you like. It could be a sport game, a chess game, and etc. This document should include tables.

<http://people.chu.edu.tw/~b10002057/game_competition_schedule.html>

1. (12 points) You are assigned to build a Web site for a company. You need to decide which Web server technology to use and present your suggestion in a memo. This memo should consist of following information:
   1. (9 points) Survey three current popular Web server technologies. Compare them in at least three items such as price, platforms, security, language supports, etc.

1. Apache HTTP Server

platforms：跨平台

language supports：ASP、JSP、perl、PHP、CGI

2. Internet Information Services

platforms：Microsoft Windows

language supports：ASP、JSP、perl、PHP、CGI

3. Nginx

platforms：可以在UNIX、GNU/Linux、BSD、Mac OS X、Solaris、Microsoft Windows等作業系統中執行。

language supports：PHP、Ruby、Python、Perl

* 1. (3 points) Make your suggestion on which Web server technology to use and explain why.

Apache，因為它的擴充性較佳，也是市佔率最高的網頁伺服器軟體，加上它是Open Source，具穩定性、可靠性和可定製性，且漏洞總能被很快修補，其安全性還是相當高的，而且在跨平台方面也較容易。

1. (10 points)
   1. (4 points) What does CSS stand for? What is CSS used for?

Cascading Style Sheets(階層樣式表)

是由許多樣式名稱和樣式指定值所組成的字串，我們可以利用設定好的樣式表，指定給某一種HTML標籤，或某一群組HTML標籤來使用。而被套用的HTML標籤，將會依據所套用的CSS來顯示它的外觀。

* 1. (3 points) What is a selector? List three types of selectors.

Selector(選擇器)：選擇器是一種模式，用於選擇需要添加樣式的元素。

1. Class Selectors(類別選擇器)

2. Generic Selectors(一般選擇器)

3. id Selectors (id選擇器)

* 1. (3 points) Give an example of a HTML page using CSS.

<style type="text/css">

<!--

h1, h2 {font-family:標楷體; color:red}

h3 {font-family:新細明體; color:blue}

-->

</style>

1. (10 points)
   1. (3 points) Which parts of PHP are case sensitive and which are not?

變數跟內建函式有區分大小寫

* 1. (4 points) List eight primitive types of PHP?

boolean(布林)、string(字串)、int/integer(整數)、 float/double/real (浮點數)、array(陣列)、object(物件)、resource(資源)、null(空值)

* 1. (3 points) List three ways the value of a variable can be explicitly converted to a specific type in PHP?

強制轉換: $x = (int)$y;

加入其他型態的變數: $x = $x + 1.111;

settype函數

1. (16 points) (No: 5, 6, 7, 8, 9)
   1. (6 points) Write a HTML document that reads the coefficients, a, b, and c of the equation ax2 + bx + c = 0.
   2. (10 points) Write a PHP script that calculates the roots of the equation and shows the result on the web page. You need to consider the situation when there is no solution.

hint: x = (-b ± √ b2 - 4ac)/(2a)

<http://people.chu.edu.tw/~b10002057/Calculate.html>