

**Department of
Computing and Information Technology**

ICT05A Web Design and Programming

ICA40511 Certificate IV in Programming

Assessment Item 3: Prac Exam

Version 1 Test B

Semester 1, 2012

The following areas of competence are assessed through this activity:

Critical aspects of evidence	Links to competency standards
Develop a website styled and formatted using CSS to user requirements	ICAWEB409A 1.1 1.2 1.3 1.4 ICAWEB411A 1.1 1.2 1.3 2.2 3.2
Lay out page elements using CSS	ICAWEB409A 1.2 1.3 1.4 ICAWEB411A
Test web pages in a variety of browsers	ICAWEB409A 2.1 2.3 ICAWEB411A 3.1
Validate the CSS against industry standards	ICAWEB409A 2.2 ICAWEB411A
Produce basic client server-side scripts for dynamic web pages	ICAWEB409A ICAWEB411A 2.1 2.3
Confirm successful viewing of the active elements or objects across different platforms.	ICAWEB409A 2.1 ICAWEB411A 3.1

Instructions to students:

Time	2 hours
Method	Closed book
Possible Marks:	60
Weighting:	25% of final mark

Marking Scheme

<i>Item</i>	<i>Possible Marks</i>	<i>Actual Marks</i>
Practical Task	60	
TOTAL	60	

Student Name:**Group:**

Student Id No:**Teacher:**

Student Signature:.....**Date:**

Task

Log onto your computer using the Username: **GEXAM** and the password: **exam**

Download the relevant files which can be found on K drive (K:\APT\NFC\CA11 Subjects\WebDesignAndProgramming\Exam01).

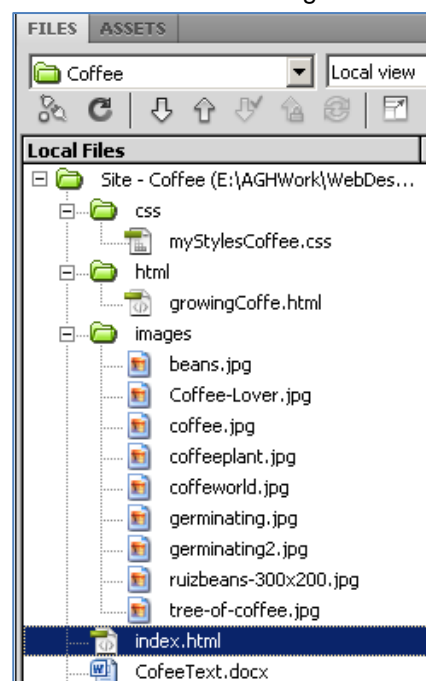
Extract and save all these files in **C:\Data** in a folder named YourStudentID eg **HIT123456**

Scenario:

You have been given the bare bones of a site called **Coffee**. You are to make the **index.html** and **growingCoffee.html** pages functional, by inserting the text, correct links, images and apply formatting. The text you need for this site is saved in a file called **CoffeeText.txt**.

You have been provided with the following:

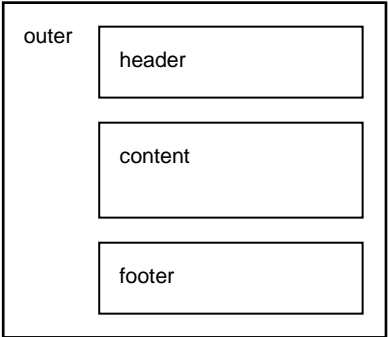
- A **zip** file called **Coffee.zip**. This contains all your image files and a text file containing the text for this task. Unzip these files to **C:\Data\YourStudentId**.
- Create a subfolder called **images**. Copy all image files into this folder.
- Copy the file **CoffeeText.txt** into the root directory.
- Create a folder called **css** at root level. You will save your external css file in this directory.
- Create a folder called **html** at root level. You will save your html file in this directory with the EXCEPTION of **index.html** (which MUST be saved in your root directory).
- Delete the zip file and the folder it created.
- Using Dreamweaver, create a site called **Coffee** and point it to the directory you created in **C:\Data\YourStudentId**.
- By the end of this practical you should have the site structure shown above.



Screen dumps of the completed pages for this site are attached at the end of this paper to help you.

NOTE: Make sure that you regularly save your work during this task.

Tasks	Possible Marks
1. Set up site as per instructions above (file structure).	4

Tasks	Possible Marks
2. Create a new html page called index.html . In code view, write your name and the date between html comment tags at the top of the page and resave the file.	1
3. Insert " Coffee " as a title for this page.	1
4. Open the file called CoffeeText.txt . Copy and paste the text that is to go into this file in design view .	1
<p>5. This document is to be divided into three sections (divisions) all held in an outer division.</p> <p>In code view, directly under the opening body tag create a division with an id of outer. Close this division immediately before the closing body tag.</p> 	1
6. Immediately below the opening outer division, create another division called header . This division is to close under the text " Coffee " – which will be the main heading on your page.	1
7. Go to the bottom of the page. You will notice address details for the Coffee Club. This information is to be enclosed in address tags.	1
8. Place the address in a division with an id called footer .	1
9. Create a division for the text immediately after the closing tag for the header division, and immediately above the opening tag of the footer division. This division is to have an id of content .	1
<p>10. Insert style tags in the head part of your document, with appropriate html comment tags. For the following steps, define all styles as an embedded style.</p> <p><i>Once you have defined your styles for this document your will cut and paste most styles to an external style sheet.</i></p>	1
11. Define the following style for the header division: It has to have the background image beans.jpg repeated across the top of the document.	1
12. For the outer division apply a background color of #630 .	1

Tasks	Possible Marks
13. For the content division apply the following formatting: Left margin of 10em Left padding of 1em Background color of #AE9984	2
14. For the address apply the following formatting: Font family of Georgia, "Times New Roman", Times, serif Font variant of small caps Font size of 10px Text alignment of center Text color of white	2
15. Create a class style called topHeading : Font family of "Lucida Sans Unicode", "Lucida Grande", sans-serif Left padding of 10px Font style as normal Text color of #FFF Top padding of 35px Bottom padding of 35px Font size of xx-large	2
16. Select the main heading on the page - " Coffee ". Enclose this text in h1 heading tags and apply the style topHeading to it.	1
17. Define the following style to the body of the document: Font family of Arial, Helvetica, sans-serif Font size of 12px Font color of #000	1
Define the following style for h2 headings: Font family of "Trebuchet MS", Arial, Helvetica, sans-serif Font color of #FFF	1
18. Define the following style for h3 headings: Font family of " Georgia, "Times New Roman", Times, serif Font style of italic Font color of #FFF	1
19. Find the text " Coffee Facts " and " Coffee Plant Growth and Development " and make them h2 and h3 type headings respectively.	1
20. Insert the image Coffee-Lover.jpg.jpg directly after the opening tag of the content division. This image is to have the following properties: Alternate text of "Oh Coffee!" Width of 240 Height of 233 Horizontal and vertical spacing of 10 Float right	2

Tasks	Possible Marks
21. Insert the image tree-of-coffee.jpg directly under the “Coffee Plant Growth and Development” heading. This image is to have the following properties: Alternate text of “ Coffee Fruit ” Width of 300 Height of 224 Horizontal spacing of 10 Float left	2
22. Find the text: “ Coffea arabica ”, “ Coffea canephora ”, “ Arabica coffee ”, “ Robusta coffee ”, “ woody perennial evergreen dicotyledon ”, “ Rubiaceae ”, “ Fruit ”, “ Coffee Plant Root System ” and “ Coffee Leaves ”. Make these bold .	1
23. Find the text: “ Coffea arabic ” and “ Coffea canephora ”. (Two places each. Make these <i>italicised</i> . (Latin names should always be italicised.)	1
24. Coffee Facts should to be displayed in a nested unordered list . <i>Refer to your sample page and apply this.</i> Note that there is to be additional bottom padding of 1em after each <i>outer</i> list item. Add this style to your css styles.	3
25. Find the text “ An important export commodity ” in the last dot point. Make this text into an external hyperlink to the site: http://www.ico.org/trade_statistics.asp?section=Statistics . As it is an external link, it should open in a new page .	2
26. Find the text “ Back to Top ” near the bottom of the page. This is to be made into a jump link. When the user clicks on this, the page should go to the top heading.	2
27. In the address block find the e-mail address . Make this into an e-mail link (using the same e-mail as displayed).	2
28. For style re-use it is best to save all the styles you have defined in an external style sheet. Create an external style sheet called mystylesCoffee.css . Save this file in a directory called css . Cut the styles (with the EXCEPTION of the style definition for the header division) and paste them into your css file. Link this style sheet to index.html .	2
29. Create a new html file called growingCoffee.html and save it in the html directory. Make sure that it has a title of Coffee. Copy and paste the relevant text from CoffeeText.txt .	2
30. Return to index.html . Find the text “ Growing Coffee Beans at Home ”. Make this text into a hyperlink, so that when the user clicks this text they are taken to the file growingCoffee.html .	1
31. Return to growingCoffee.html . Find the text “ Back ”. Make this text into a hyperlink, so that when the user clicks this text they are taken to the file index.html .	1

Tasks	Possible Marks
32. Create similar divisions for growingCoffee.html as you did for the index.html page. (Steps 6 to 9)	3
33. Link your external style sheet mystylesCoffee.css to this file.	1
34. Find the text " Coffee ". Format it as a h1 heading with a style of topHeading . Find the text " Growing Coffee Beans at Home " and format it as a h2 . Make " Coffee Plant Care " a h3 heading.	1
35. Insert the style tags in the head section of the document and define the header division for this document to appear the same as the heading in index.html (with the background image).	1
36. Insert the image germinating2.jpg directly under the opening tag of the content division. This image is to have the following properties: Alternate text of " Germinating Coffee " Width of 301 Height of 283 Horizontal and vertical spacing of 10 Float right	2
37. Apply an unordered list to each paragraph of text on the page. There is to be additional padding after each listed item.	1
38. For the links specify: For a visited link the color should be #6C0000 . When hovering over a link the color should be #FFFFFF and the link (text decoration) should be underlined .	2
39. Ensure all tags, styles and links used throughout all pages are XML compliant and that there are no missing or inappropriate tags.	2

Total Possible Marks:

60

Text Source:

<http://www.arabicacoffee.com.au/>
www.coffeeresearch.org

Image Source:

<http://coffeemarket.com.au/choosing-coffee-beans-online-effectively/>
<http://media.photobucket.com/image/coffee-lover.jpg+jg8047/CoffeeLover.jpg> (Coffee cup)
www.coffeeresearch.org (germinating coffee)

index.html

Coffee

Coffee Facts

- Coffee is a brewed beverage with a bitter, acidic flavor prepared from the roasted seeds of the coffee plant. The beans are found in coffee cherries, which grow on trees cultivated in over 70 countries, primarily in equatorial Latin America, Southeast Asia, South Asia and Africa.
- The earliest credible evidence of coffee drinking appears in the middle of the 15th century in the Sufi shrines of Yemen in southern Arabia.
- Coffee berries which contain the coffee seeds or "beans" are produced by several species of small evergreen bush of the genus *Coffea*. The two most commonly grown are the highly regarded *Coffea arabica*, and the "robusta" form of the hardier *Coffea canephora*.
 - *Coffea arabica* known as *Arabica coffee* accounts for 75-80% of the world's production.
 - *Coffea canephora* known as *Robusta coffee* accounts for about 20% and differs from the Arabica coffees in terms of taste.
- Both the Robusta and Arabica coffee plant can grow to heights of 10 meters if not pruned but producing countries will maintain the coffee plant at a height reasonable for easy harvesting.
- Once ripe, coffee berries are picked, processed, and dried. The seeds are then roasted to varying degrees, depending on the desired flavor. They are then ground and brewed to create coffee. Coffee can be prepared and presented in a variety of ways.
- An important export commodity, coffee was the top agricultural export for twelve countries in 2004, and it was the world's seventh-largest legal agricultural export by value in 2005.



Coffee Plant Growth and Development

The coffee plant is a woody perennial evergreen dicotyledon that belongs to the Rubiaceae family. Because it grows to a relatively large height it is more accurately described as a coffee tree. Three to four years after the coffee is planted, sweetly smelling flowers grow in clusters in the axils of the coffee leaves.



Fruit

Fruit is produced only in the new tissue. The *Coffea Arabica* coffee plant is self-pollinating, whereas the *Robusta* coffee plant depends on cross pollination. Coffee beans start to form about 6-8 weeks after each coffee flower is fertilized, but is dependent upon the climate. The coffee cherry will change color from green to red about thirty to thirty-five weeks after flowering.

Coffee Plant Root System

The roots of the coffee tree can extend 20-25 km in total length. There are main vertical roots, tap roots, and lateral roots which grow parallel to the ground. The tap roots extend no further than 30-45 cm below the soil surface. The roots systems are heavily affected by the type of soil and the mineral content of the soil. To be thick and strong, the coffee roots need an extensive supply of nitrogen, calcium and magnesium. During planting the main vertical roots are often clipped to promote growth of the the horizontal roots, which then have better access to water and added nutrients in the top soil.

Coffee Leaves

The elliptical leaves of the coffee tree are shiny, dark green, and waxy. The coffee plant has become a major source of oxygen in much of the world. Each hectare of coffee produces 95 lbs of oxygen per day, which is about half the production of the same area in a rain forest.

[Growing Coffee Beans at Home](#)

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HOLMESGLEN COFFEE CLUB BATESFORD ROAD HOLMESGLEN 3148 TELEPHONE: (03) 9584 1555 [www.holmesglencoffeeclub.com.au](#)

growingCoffee.html

Coffee

Growing Coffee Beans at Home

Coffee Plant Care

- The coffee plant thrives under artificial plant lighting indoors. The outside temperature in countries outside the Tropics belt is too volatile and too cold to allow the tree to develop.
- Water the tree twice per week in what is called a full watering and a half watering. In a half watering, simply add some water to the soil and allow it to drain. In a full watering, add water, allow it to drain, and then add water with fertilizer and allow it to drain. The key is to keep the soil moist, but well drained.
- After two or three years flowering and possibly cherries can be expected, but do not expect high-quality coffee unless you are at a high altitude and are monitoring the conditions of the artificial microclimate carefully. In theory, it is feasible to grow a high-quality coffee at home under the right conditions.
- To spur flowering, wait until the beginning of winter and significantly reduce watering for 2-3 months. When Spring begins water the plant well, which should shock it into producing flowers. From this point forward, water well and regularly. Arabica coffee is self-fertilizing so you will not need to worry about pollinating.
- Once the cherries mature you can harvest, pulp, ferment, dry, roast, and drink the coffee.



[Back](#)

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