ECS417U Lab sheet for week 5

Exercise 1

Practice writing simple document level style rules. In the following exercises, make use of the following declarations (one per line):
```
background-color: silver;
font-size : 24pt;
```
These will be referred to as "the background declaration" and "the text declaration" respectively.

1. Write CSS style rules that apply the background declaration to `div` elements and the text declaration to `strong` elements.
2. Write a single style rule that applies both the background and text declarations to both `p` and `ul` elements.
3. Write a single style rule that applies the background declaration to HTML elements having a value of `cool` for their `id` attributes as well as to elements belonging to the `shiny` class
4. Write a style rule that applies the text declaration to `span` elements that belong to the `bigger` class.
5. Write a style rule that applies the text declaration to `span` elements that are descendants of other `span` elements.
6. Write a style rule that applies the background declaration when the cursor hovers over a hyperlink.

Exercise 2

Create three external style sheets, using a different subset of the style rules you wrote for the previous exercise in each style sheet. Save them as s1.css, s2.css, and s3.css respectively. Then write a complete XHTML document that uses all of your style rules and validate it.

1. Your document should treat your style sheets as being of three different types:
    a. A non-persistent and preferred style sheet
    b. An alternative style sheet
    c. A style sheet used only if the XHTML document is printed
2. Use the `@import` rule to have the first of your style sheets import the second, which imports the third. Your XHTML document should treat the first style sheet as a persistent style sheet.

Exercise 3

Locate a website that displays the colors of the so-called "browser-safe color palette" (a hint: goolge "browser-safe color palette"), a collection of colors that can reliably be displayed even using video cards that are capable of showing only 256 different colors simultaneously.

1. How many colors are contained in this palette?
2. Of the colors red, orange, yellow, green, blue, purple, and brown, identify the color(s) that seem to have the most different shades in the browser safe palette and the color(s) that have the fewest.

3. Visit 10 of your favourite web sites and analyse their use of CSS color values by view document and style sheet sources. Which sites use the browser-safe palette and which do not?
4. Apply your favourite colors from the palette to elements of the personal homepage you created in previous lab sessions.

Exercise 4

Create and test an XHTML document that has six short paragraphs of text that describe various aspects of the village/town/city/county in which you live. You must define two different paragraph styles, p1 and p2. The p1 style must use a background color of pink, and foreground color of blue, font family of serif, and font size of 12pt. The p2 style must use a background color of green, and foreground color of white, font family of fantasy, and font size of 14pt. The first three paragraphs must use p1, and the rest must use p2.

Exercise 5

Create and test an XHMTL document that describes an unordered list of the top 5 best selling books in UK at the moment. The bullet for each book must be a small image of the book's cover. Find the images on the Web.