**Assessment 1 – Structured Activities (ICTWEB452)**

**Task 3**

**You must complete questions and exercises as described below.**

***Preliminary Instructions*:**

A. Consult with your lecturer during the execution of the following tasks (Tasks 1 – 3).

B. Make sure you access the required organisational procedures, while you are working.

**QUESTIONS**

1. Visit the following page giving W3C “Web Design and Applications” standards: <https://www.w3.org/standards/webdesign/>

* For the web standard “Accessibility”, describe 3 design principles discussed in this standard: <https://www.w3.org/standards/webdesign/accessibility>
  + The three-design principles in W3C are perceivable, operable, understandable.
    1. **Perceivable** - ensuring that the text or information being presented to the user can understand, hear, or see easily, such as text alternative for images.
    2. **Operable** – making the website more accessible and user can navigate the website without any problem such as navigating the website using a keyboard.
    3. **Understandable** – the information or the content that is being presented to the user must be readable, easy to understand and without any difficult words or idioms.
* Give a brief overview of 2 other standards that the World Wide Web Consortium (W3C) defines.
  + The two other standards that the W3C defines are HTML and CSS
    1. **HTML** is a markup language used to create a webpage to present information to users. W3C making sure that the webpage is functional on different devices
    2. **CSS** is used to control the webpage's appearance, such as fonts, color, spacing, and animation. By using CSS code, you can also change the layout of the webpage

2. Give an overview of what HTML accessibility means.

* + - HTML accessibility is making the website more accessible to people with disabilities and makes the website content more usable and understandable by using the right heading, text for images, and using descriptive names for links instead of using click more.

3. Why would you make sure your HTML code is accessible?

* + - You are allowing people with disabilities to have control of the website's appearance and you are also making sure that the website is mroe functional, so they can access the website using voice commands, screen readers, or keyboard.

4. **Browser accessibility features**

- For the following browsers, detail the accessibility features that are available:

* **Microsoft Edge**
  + Alt text for images
  + Keyboard support
  + Text contrast
  + Make text larger
  + You can also use a high contrast for reading
  + Make the web read for you
* **Firefox**
  + Keyboard support
  + Changing the size of the text
  + High contrast theme
  + Screen reader
  + Changing the page colour
* **Google Chrome**
  + Change the text size
  + Alt text for images
  + Keyboard support
  + High contrast theme
  + You can also use your voice to search for something

5. Give an overview of what HTML validation means and how you may validate your code.

* + - HTML validation means is to check if the website is working properly and following the certain standard such as W3C accessibility. You can validate your code using a tool such as W3C Validation tool and achecker.

6. Why would you validate your HTML code?

* + - It is important to validate your HTML code because it helps you identify any errors and improve in the future, and it also increase your SEO ranking in google search engine, and improve your performance

**EXERCISES**

1. Use one of the tools, of your choice from: <https://achecker.achecks.ca/checker/index.php> to assess the accessibility of the code you created for **exercise 1** and 2 from **Task 2**

* Note down any errors.
  + - No language detected
* Change your code so there are no errors….
  + - Fixed some errors

2. Validate the code you created for **exercise 1 and 2** from **Task 2** using the validator at: <http://validator.w3.org/>

* Note down any errors.
  + - Missing titles
    - The character encoding was not declared
    - The CY and CX not allowed on element rect
    - Missing titles
    - Start tag head seen but an element of the same type was already open.
* Change your code so there are no errors….
  + - Changed and fixed my code so there are nor errors

3. Test your webpages and complete the template given in the “Organisational Procedures and Guidelines” section: “Acceptance testing”.