Lab 1 –Basic Concept of Web Technology

Purpose

- Create your first webpage '**Basic Concept of Web Technology**'

Due Date

- This lab must be handed in:
   May 10, 2024 – before midnight

Assessment

- This Lab is worth 2% of your total course mark.

Assigned Readings

➢ **Lecture Slides** posted on Brightspace
   - Module 1 -> Part 1

➢ The following chapters of **Fundamentals of Web Development** will be useful in completing this exercise:
   - Chapter 1
   - Chapter 2

Lab Supplies

To complete this lab you will require the following lab supplies:
- Lecture Slides (**Module 1 -> Part 1**) posted on Brightspace
- Textbook: **Fundamentals of Web Development** by Randy Connolly and Ricardo Hoar
- Notepad++/Notepad (or other text editor, or IDE)

Summary of Tasks
1. Create your first webpage using Notepad++/Notepad.
2. View your webpage using a web browser.

Task 1

Create your first website using Notepad++/Notepad (or any IDE).

The title of the web page will be '**Basic Concept of Web Technology**'.

Handwrite the HTML needed to create a webpage that will contain the answers of the following questions:
- Define a web server. (1 mark)
- Describe the main steps in the domain name registration process (2 mark)
- Give an example of Uniform Resource Locator (URL) and specify all components of an URL. (2 marks)
- What are the benefits of DNS? (1 mark)
- Describe the main steps in the domain name address resolution process. (3 marks)
- Write down all the Hypertext Transfer Protocol (HTTP) response codes with the corresponding texts (4 marks)
- What events occur during the rendering of a web page? (2 marks)
- Give some examples of HTTP request methods. (1 mark)
- What is browser caching? (1 mark)
- Give an example of web server software, database software and scripting software. (3 mark)

Be sure to name this file: **index.html**

Task 2

To hand in your lab go to Brightspace and navigate to Course Content → Labs and click on 'Lab 1 –Basic Concept of Web Technology' link.

Upload the HTML document (**index.html**) on Brightspace.