**Day 2 – Web Server (Software)**

**Warm-Up Activity**

Creating a simple Web Page

1. Use the Windows File Explorer tool to open your student id folder on the G drive
2. Right click and select New->Text Document
3. Name the file “mywebpage.txt”
4. Edit and save the file with the following contents

<h1>Hello Everybody</h1>

<p>This is a basic <b>HTML</b> web page</p>

Opening your web page

1. Open your web browser (e.g. Chrome)
2. Type “file://G:/” for the URL. What do you see?
3. Click on your “mywebpage.txt” to open it. What do you see?
4. Use File Explorer to rename your file to “mywebpage.html”
5. Refresh the “file://G:/” URL
6. Click on your “mywebpage.html” to open it. What do you see?

**Presentation Notes: Web Server Software**

1. What is a HTML and what does it stand for?  
   HTML stands for Hyper-Text Markup Language. It is simple text with special tags in angle<> brackets.
2. What does a basic web page contain?  
   Contains ***static*** content (such as text content that does not change when the page is reloaded). The page can contain advanced graphics along with text.
3. How does a dynamic web page differ from a basic web page?  
   They are basic web pages that also include ***dynamic*** content that may change while the page is loaded or when it is reloaded. May also include program scripts using JSP, Java, Python, etc. Dynamic pages include links to include data from other types of web servers (ex. Streaming servers, database servers, etc.)
4. What is a Web Server?  
   A Web Server is an application program. This program can be run on any PC. Usually runs on more reliable Web Server Hardware. Most common web server programs are Apache (Unix/Linux) and IIS (Microsoft).
5. What are some functions of a Web Server?  
   To respond to HTTP or HTTPS internet requests from user clients (ex. web browsers). Also to provide service for basic web pages. Web Servers communicate with other internet servers. To verify account information and user access, as well as to provide dynamic content.
6. What are some common types of Web Servers?  
   Apache – Unix/Linux  
   IIS – Microsoft
7. What is a HTTP and what does it stand for?

HTTP stands for Hyper-Text Transfer Protocol

1. What is the difference between HTTPS and HTTP?  
   HTTP means the browser (client) wants to connect to a web server. It is expecting to receive HTML content. HTTPS is the same thing as HTML, information sent and received in ***encrypted*** format. HTTPS provides a ***basic level*** of security for passwords and other private information.
2. What are some other common URL protocols?

file:// - to access files on a local computer

ftp:// - to access files or a remote server

telnet:// - to open a window on a remote server