



## Computer Basics Review

Review the concepts below to prepare for the upcoming quiz.

### Understanding Computer, Internet and Developer Tooling Basics

- **Motherboard:** holds all of the memory, connectors, and hard drives that are needed to run the computer. It serves as the main circuit board for the computer.
- **Central Processing Unit(CPU):** a processor that is responsible for executing instructions and performing calculations.
- **Random Access Memory(RAM):** a temporary storage location for the computer's CPU.
- **Hard Disk Drive(HDD):** a permanent storage location that is used to store data even when the computer is turned off.
- **Solid State Drive(SSD):** non-volatile flash memory and can be used in place of a hard drive.
- **Power Supply Unit(PSU):** responsible for converting the electricity from the wall outlet into a form that the computer can use.
- **Graphics Processing Unit(GPU):** responsible for rendering visuals on the computer screen.
- **Different Types of Internet Service Providers:** An Internet Service Provider (ISP) is a company that provides access to the internet. There are different types of ISPs, including dial-up, DSL, cable, fiber-optic, and satellite.
- **Safe Ways to Sign Into Your Computer:** Examples of safe ways to sign into your computer include using a strong password, enabling two-factor authentication, and using a password manager.
- **Integrated Development Environment (IDE):** a tool that helps developer write, test and debug code in an efficient manner.
- **Code Editor:** a tool that developers use to write and debug code.
- **Git:** a popular version control system that allows developers to track changes in their code and collaborate with others.
- **Cloud-based Hosting Services for repositories:** A repository is a storage location for project files and version history. Popular cloud-based hosting services for repositories include GitHub, GitLab, and Bitbucket.
- **Package Managers:** tools that help developers simplify the process of adding, updating, and removing libraries and project dependencies. Examples include npm, pip, and Maven.
- **Testing Libraries and Frameworks:** Testing is done in software to ensure that the code works as expected. Examples of testing libraries and frameworks include Jest, PHPUnit, and JUnit.

### Working With Files, File Systems and Media Formats

- **Best practices for naming files:** You will want to name your files in a way that is easy to understand and maintain. For example, `aboutus.html` is a more descriptive name than `page1.html`.
- **root directory:** top-level directory in a file system. Directory is another name for a folder.
- **Markdown:** a markup language commonly used for documentation and `README` files. A `README` file is a file that contains information about a project, such as how to install and use it.
- `index.html`: represents the default page that is displayed when a user visits a website.
- **Create, Move, and Delete files and folders using Explorer/Finder:** Explorer is the file manager in Windows, and Finder is the file manager in macOS. You can use these tools to create, move, and delete files and folders.
- **Searching for files and folders:** You can use the search functionality in Explorer or Finder to find files and folders on your computer.
- **HTML, CSS and JS File Types:** `.html` file extension is used for HTML files, `.css` for CSS files, and `.js` for JavaScript files.
- **Common Image and Graphic Formats:** `JPEG` and `PNG` are common image file formats. `GIF` is another common image file format that supports animation. `SVG` is a file format for vector graphics.
- **Common Audio and Video Formats:** The `MP3` format is commonly used for audio files. The `MP4` format is commonly used for video files. The `MOV` format was developed by Apple and is commonly used for video files.
- **Common Font Formats:** The `TTF` format is commonly used for TrueType fonts. The `WOFF` format is commonly used for web fonts. The successor to WOFF is `WOFF2`, which provides better compression.
- **ZIP:** a file format that is used to compress files and folders.

### Browsing the Web Effectively

- **What is a Web browser?:** a software application that allows users to access and view websites on the internet.
- **What is a Search Engine:** a tool that allows users to search for information on the internet. Examples include Google, Bing, and Yahoo.
- **Common web browsers:** A few examples of common web browsers include Google Chrome, Mozilla Firefox, and Microsoft Edge.
- **Common Search Strategies:** You can use `site:` followed by the URL of a website to search for content on that website. You can use `filetype:` followed by a file extension to search for files of that type. You can prefix a search term with a minus sign to exclude results containing that term. You can prefix a search term with a plus sign to include results containing that term.



Review the Computer Basics topics and concepts.

Please complete the assignment

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