**Module Quiz: Get started with Web Development**

1. **When two computers connect directly to each other, this forms \_\_\_\_\_\_\_\_\_\_\_\_\_\_.**
   * (X) the Internet: Incorrect because the Internet refers to a global network of interconnected computers, not just a direct connection between two computers.
   * (C) a Network: Correct as a network is defined by any connection between two or more computers, allowing them to communicate.
   * (X) a Server: Incorrect because a server is a computer or system that provides resources, data, services, or programs to other computers, known as clients, over a network.
2. **The programs that run on a computer are called the \_\_\_\_\_\_\_\_\_\_\_\_\_\_.**
   * (X) Hardware: Incorrect as hardware refers to the physical components of a computer system, not the programs.
   * (C) Software: Correct because software encompasses the programs and operating information used by a computer.
3. **The structure of a web page is defined using \_\_\_\_\_\_\_\_\_\_\_\_\_\_.**
   * (C) HTML: Correct because HTML (Hypertext Markup Language) is the standard markup language used to create and design pages on the World Wide Web.
   * (X) CSS: Incorrect as CSS (Cascading Style Sheets) is used for styling and laying out web pages, not for defining their structure.
   * (X) JavaScript: Incorrect because JavaScript is a programming language used to create dynamic and interactive effects within web browsers, not to define the structure of web pages.
4. **The style of a web page is defined using \_\_\_\_\_\_\_\_\_\_\_\_\_\_.**
   * (X) HTML: Incorrect as HTML is used for the structure and content of web pages, not styling.
   * (C) CSS: Correct because CSS is used for styling HTML elements on the web page.
   * (X) JavaScript: Incorrect though JavaScript can manipulate styles, CSS is specifically designed for styling purposes.
5. **Computers communicate with each other using which protocol?**
   * (X) Network Protocol: Incorrect as it is a general term for protocols designed to allow computers to communicate over a network, not a specific protocol.
   * (X) Mail Protocol: Incorrect because mail protocols, like SMTP, are specific to email communications.
   * (X) Mobile Protocol: Incorrect as this refers to protocols specific to mobile networks.
   * (C) Internet Protocol: Correct because Internet Protocol (IP) is a set of rules governing the format of data sent over the Internet or other networks.
6. **To communicate with another computer on a network, your computer sends a message called an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**
   * (C) IP Packet: Correct because an IP packet is a packet of data which includes both the message being sent and the destination address, following the Internet Protocol.
   * (X) IP Mail: Incorrect as this is not a recognized term for data transmission.
   * (X) IP Container: Incorrect because "IP Container" is not a standard term used in networking or communication protocols.
7. **The web browser and web server use which protocol to transfer data?**
   * (X) DNS: Incorrect because DNS (Domain Name System) translates domain names to IP addresses, not for data transfer.
   * (X) SMTP: Incorrect as SMTP (Simple Mail Transfer Protocol) is used for sending emails.
   * (C) HTTP: Correct because HTTP (Hypertext Transfer Protocol) is the protocol used for transmitting hypermedia documents, such as HTML.
   * (X) IMAP: Incorrect as IMAP (Internet Message Access Protocol) is used for email retrieval.
8. **In software development, a framework provides a structure for developers to build an application.**
   * (C) True: Correct because frameworks offer a foundation and predefined structures to build applications more efficiently.
   * (X) False: Incorrect as frameworks are specifically designed to provide standard functionality and a systematic way for developers to build applications.
9. **As a developer, it is best to use a \_\_\_\_\_\_\_\_\_\_\_\_\_ to write and maintain code.**
   * (X) Word Processor: Incorrect because word processors are designed for text formatting and are not suitable for coding due to the lack of syntax highlighting, error detection, and other features important for programming.
   * (C) Integrated Development Environment: Correct because an IDE provides comprehensive facilities to computer programmers for software development, including a source code editor, build automation tools, and a debugger.
   * (X) Web Browser: Incorrect as a web browser is used for accessing the internet and not specifically designed for writing and maintaining code.
   * (X) Development Book: Incorrect because a book can provide knowledge but is not a tool for actively writing and maintaining code.
10. **In software development, an API is a set of functions that an application component or service can provide.**
    * (C) True: Correct because an API (Application Programming Interface) specifies how software components should interact and provides a set of routines, protocols, and tools for building software applications.
    * (XFalse: Incorrect as APIs indeed define a set of accessible functions that allow for interaction and functionality extension between different software applications.