1. Define the Internet.

The Internet is a global network of interconnected computers and devices that communicate using standardized protocols to share information, resources, and services like websites, email, and file transfers. (billions of network connect together)

1. What is the role of a modem?A modem converts digital signals from a computer into analog signals for transmission over telephone or cable lines, and vice versa, enabling access to the Internet.
2. **Name two types of web addressing systems.  
   IP address and URL (Uniform Resource Locator)**
3. **Explain how data travels across the Internet using TCP/IP.**
4. List the common services provided by the Internet?
5. What is the role of a web browser?
6. Differentiate between front-end development and back-end development
7. How does an Apache web server process a request for a dynamic PHP webpage

When a request for a .php file is received:

1. Apache checks its configuration to identify that the file should be processed by the PHP engine.
2. It passes the request to the PHP interpreter.
3. PHP executes the code and generates HTML.
4. Apache sends the resulting HTML page back to the client’s browser.
5. Why is the use of version control software important for full stack developers
6. Describe some benefits of using the Internet in education?