Introduction Of JavaScript

Theory Assignment

Question 1: What is JavaScript? Explain the role of JavaScript in web development.

JavaScript is a programming language used to create dynamic and interactive web pages. It enables features like animations, real-time updates, form validation, and server communication, making web applications more responsive and engaging.

Question 2: How is JavaScript different from Python or Java?

- **JavaScript**: Runs in browsers, dynamically typed, mainly for web development.

- **Python**: General-purpose, used in AI, data science, and scripting.

- **Java**: Compiled, statically typed, popular for enterprise and Android applications.

Question 3: Discuss the use of `<script>` tag and linking external files.

- The `<script>` tag embeds JavaScript into HTML. To link an external file:
- html
- Copy code

Place it in <head> or at the end of <body> for better performance. Use defer to load scripts after HTML parsing.