Module 8) JavaScript
JavaScript Introduction

Question 1:

What is JavaScript?
JavaScript is a programming language used to add interactivity and dynamic features to websites, such as animations, form validation, and real-time updates.

Role of JavaScript in Web Development:
It makes web pages interactive, enhances user experience, and allows developers to create dynamic and responsive web applications.

Question 2:

How is JavaScript different from Python or Java?

JavaScript runs mainly in web browsers, while Python and Java are used for broader applications like backend development or software creation.

JavaScript is interpreted (runs in browsers directly), whereas Java is compiled into bytecode and Python uses an interpreter outside the browser.

Question 3:

What is the `<script>` tag?
The `<script>` tag in HTML is used to embed or link JavaScript code into a webpage.

How to link an external JavaScript file?
Use the `<script>` tag with the `src` attribute:

html

```html
<script src="script.js"></script>
```

This tells the browser to load and run the JavaScript file named `script.js`.