Introduction - JSP

* Java Server Pages (JSP) is a technology used for developing dynamic web applications.
* It allows embedding Java code within HTML.
* Compiles into a Servlet behind the scenes.
* Part of Java used in frameworks like Spring MVC Projects.

JSP Syntax

* Directives (<%@ %>) Define global settings for JSP pages.
* Declarations (<%! %>) - Declare variables and methods.
* Expressions (<%= %>) Output data directly into HTML.
* Scriptlets (<% %>) - Write Java code inside a JSP page.

JSP Life Cycle

JSP undergoes several phases during execution:

* Translation Phase

JSP file Servlet (automatically converted).

* Compilation Phase

The Servlet (from JSP) is compiled into Java bytecode.

* Initialization (jspInit())

Called once when the JSP is loaded.

* Execution (\_jspService()) –

Handles client requests and processes data.

* Destruction (jspDestroy())

Called before the JSP page is unloaded.