**5. Spring MVC**

**3. Request Mapping in Spring MVC:**

• **Theory:**

**1.Using @RequestMapping, @GetMapping, and @PostMapping annotations to map HTTP requests to controller methods:-**

**1️.@RequestMapping (General Request Mapping)**

The @RequestMapping annotation can map **both URL paths and HTTP methods**.

**2️.@GetMapping (Handling GET Requests)**

@GetMapping is a **shortcut** for @RequestMapping(method = RequestMethod.GET). It is used for handling **GET** requests, usually for fetching data.

**3️.@PostMapping (Handling POST Requests)**

@PostMapping is used to handle **POST** requests, usually for submitting forms or sending data to the server.

**4️.Using @RequestMapping with HTTP Methods**

If you need to specify the HTTP method explicitly, you can do so with method = RequestMethod.TYPE.

**5. Path variables, request parameters, and form handling:-** Spring MVC provides different ways to capture user input from URLs, query parameters, and forms. The key methods are:

1️.Path Variables (@PathVariable) – Extract values from the URL.  
2️.Request Parameters (@RequestParam) – Extract values from query parameters or form fields.  
3️.Form Handling (@ModelAttribute) – Bind form data to a Java object.