1. **Introduction to STS (Spring Tool Suite) 1.** **Installation and Setup:**

• **Theory:**

**1.** **Step-by-step guide on how to download, install, and configure STS for Java/Spring development:-** Spring Tool Suite (STS) is a specialized Eclipse-based IDE for Spring and Java development. Below is a complete step-by-step guide to downloading, installing, and setting up STS.

1️. In the Eclipse Marketplace, type Spring Tools in the search bar.  
2️. Look for "Spring Tools 4 (aka Spring Tool Suite 4)".  
3️. Click Install.  
4️. Select all features and click Confirm.  
5️. Accept the license agreement and click Finish.  
6️. Eclipse will download and install STS (it may take a few minutes).  
7️. Restart Eclipse when prompted1️. Extract the ZIP file to your preferred location (e.g., C:\SpringToolSuite).  
2️. Open the folder and double-click on SpringToolSuite4.exe.  
3️. Select a workspace directory (where your projects will be stored) and click Launch.

**2. Overview of the interface, how to create a Spring Boot project, and the workspace organization:-**

* **Project Explorer** → Shows project structure.
* **Editor Area** → Where you write Java code.
* **Console Window** → Displays logs & errors.
* **Spring Boot Dashboard** → Manages Spring Boot applications.

**🔹 How to Create a Spring Boot Project in Eclipse (STS):**

1️. **File → New → Other → Spring Starter Project → Next**  
2️. Enter **Project Name, Group ID, Artifact ID → Next**  
3️. Select **Dependencies (Spring Web, JPA, MySQL, etc.) → Finish**

**🔹 Workspace Organization:**

* **src/main/java** → Business logic (Controller, Service, Repository).
* **src/main/resources** → Config files (application.properties).
* **pom.xml** → Maven dependencies.