Java Spring Boot Training

1. Introduction to Spring
   - Spring Modules

2. Spring Core
   - Introduction to IOC
   - Types of DI
   - Setter VS Constructor
   - Collection DI
   - Bean Inheritance
   - Inner Beans
   - Bean Scopes
   - Inner Beans
   - Bean auto wiring
   - Static Factory Method
   - Instance Factory Method
   - Bean Lifecycle

3. Spring AOP
   - AOP Concepts
   - Programmatic VS Declarative AOP
   - Programmatic AOP
   - Types of Advice
   - Types of Pointcuts

4. Spring MVC
   - Introduction to Spring MVC
   - Handler Mapping
   - Controllers
   - Validations
   - Views
   - Form tags

5. Introduction to Spring Boot
   - Intro to Spring Boot - What is Spring Boot and What It Does
   - Spring Boot Hello World / Spring Application
   - Download and Install STS IDE
   - Brief maven Overview
   - Spring Beans & Dependency Injection
   - Configuration
   - Configuration Properties
   - Application Properties & YAML Configuration

   Spring Boot Annotations

   - Spring Boot Application
   - Enable Autoconfiguration
   - Spring Boot Configuration

   - Embedded server and its uses
   - What is Spring Boot Actuator

6. RESTFUL WEB SERVICES

- REST Overview (Characteristics/Capabilities, URI Templates, REST vs SOAP
- REST and Spring MVC
- Spring support for REST
- @RequestMapping/@PathVariable, @RequestBody, @ResponseBody, HTTP Method conversion
- URI Templates and @PathVariable
- Writing RESTful Controllers / @RestController

7. Accessing Data with Spring Boot and Database Support

- Data Access Introduction
- Spring Data JDBC
- Basic Auto-configuration - Data source
- Configuration Properties
- Spring Boot's JPA Support - spring-boot-starter-data-JPA

8. SPRING BOOT SECURITY
- Adding the spring boot security starter
- Apply the security configuration by writing our own authorization and authentication.