Day - 1	Day - 2

Day - 1

- **Morning Session: Introduction to Java**
  - Introduction to Java programming language
  - Setting up the Java development environment
  - Java syntax and basic data types
  - Variables and operators in Java
  - Control flow and decision-making in Java

- **Afternoon Session: Object-Oriented Programming (OOP) in Java**
  - Object-oriented programming principles
  - Classes and objects in Java
  - Inheritance, polymorphism, and encapsulation
  - Abstract classes and interfaces
  - Exception handling in Java

Day - 2

- **Morning Session: Introduction to Spring Framework**
  - Introduction to the Spring framework
  - Dependency injection and inversion of control (IoC)
  - Configuring Spring beans using XML or annotations
  - Bean scopes and lifecycle in Spring
  - Spring Core and Spring Context modules

- **Afternoon Session: Spring Boot Fundamentals**
  - Introduction to Spring Boot framework
  - Creating a basic Spring Boot application
  - Auto-configuration and opinionated defaults
  - Packaging and running Spring Boot applications
  - Configuration properties in Spring Boot

Day - 3	Day - 4

• **Morning Session: Building RESTful APIs with Spring Boot**
    o RESTful architecture and principles
    o Creating RESTful APIs using Spring Boot
    o Mapping requests and handling responses
    o Request/response serialization with JSON
    o Error handling and exception mapping
 	
 • **Afternoon Session: Database Integration with Spring Boot**
    o Connecting Spring Boot application to a database
    o Working with Spring Data JPA for data access
    o Mapping entities and relationships
    o Querying the database using Spring Data JPA
    o Transaction management in Spring Boot
	• **Morning Session: Security and Authentication with Spring Boot**
	    o Securing Spring Boot applications
	    o Authentication and authorization using Spring Security
	    o Implementing role-based access control
	    o User registration and password encryption
	    o Handling security exceptions and access denied scenarios
	
	 • **Afternoon Session: Testing and Debugging in Spring Boot**
	    o Unit testing with JUnit and Mockito
	    o Integration testing in Spring Boot
	    o Testing RESTful APIs using Spring MVC Test
	    o Debugging Spring Boot applications
	    o Logging and monitoring with Spring Boot Actuator

Day - 4

- **Morning Session: Security and Authentication with Spring Boot**
  - Securing Spring Boot applications
  - Authentication and authorization using Spring Security
  - Implementing role-based access control
  - User registration and password encryption
  - Handling security exceptions and access denied scenarios

- **Afternoon Session: Testing and Debugging in Spring Boot**
  - Unit testing with JUnit and Mockito
  - Integration testing in Spring Boot
  - Testing RESTful APIs using Spring MVC Test
  - Debugging Spring Boot applications
  - Logging and monitoring with Spring Boot Actuator