

1. What is Spring?

Spring is a Java framework used to build web apps, APIs, and enterprise software. It helps developers build code that's easy to test and maintain.

Example: You can use Spring to create a REST API for a to-do list app.

2. What is Spring Boot?

Spring Boot is a tool that makes it easier and faster to build Spring apps. It gives you pre-configured settings, so you don't have to set up everything manually.

Example: Instead of configuring a web server or database manually, Spring Boot does it for you with just a few lines of code.

3. What is the relation between Spring platform and Spring Boot?

Spring Boot is a part of the Spring platform. It's like a helper that simplifies the setup and running of Spring applications.

Example: Spring gives you tools. Spring Boot gives you a toolbox ready to go.

4. What is the relation between Spring platform and Spring framework?

The Spring platform is the overall ecosystem, and the Spring framework is the core part of it — providing the main features like Dependency Injection, AOP,

Example: Spring platform = full toolkit; Spring framework = the base tools inside it

5. What is Dependency Injection and how is it done in the Spring platform/framework?

Dependency Injection is when objects are given their dependencies (like services or repositories) instead of creating them themselves.

In Spring, this is done using `@Autowired`.

6. What is Inversion of Control (IoC) and how is it related to Spring?

Inversion of Control means the framework (Spring) controls how objects are created and connected — not you. Spring manages the object lifecycle through the IoC container.