What is Spring?  
A lightweight Java framework for building enterprise applications.  
Example: Configuring beans via XML or annotations.

What is Spring Boot?  
An extension of Spring that simplifies application setup and deployment with auto-configuration.  
Example: Running a main class annotated with @SpringBootApplication to launch an app.

Relation between Spring platform and Spring Boot:  
Spring Boot leverages the core Spring platform to streamline configuration and development.  
Example: Using Spring Boot’s auto-configuration with Spring’s dependency injection.

Relation between Spring platform and Spring framework:  
The Spring framework is the core part of the platform, which also includes projects like Spring MVC and Spring Data.  
Example: Building a web app using Spring MVC, a component of the Spring platform.

What is Dependency Injection (DI) in Spring?  
A design pattern where dependencies are provided to objects externally.  
Example: Injecting a repository into a service using @Autowired.

What is Inversion of Control (IoC) in Spring?  
A principle where the framework manages object creation and wiring instead of the application code.  
Example: The Spring IoC container automatically instantiates and wires beans.