

1. What is loose coupling?
2. What is a Dependency?
3. What is IOC (Inversion of Control)?
4. What is Dependency Injection? Can you give few examples of Dependency Injection?
5. What is Auto Wiring?
6. What are the important roles of an IOC Container?
7. What are Bean Factory and Application Context?
8. Can you compare Bean Factory with Application Context?
9. How do you create an application context with Spring?
10. How does Spring know where to search for Components or Beans?
11. What is a component scan?
12. How do you define a component scan in XML and Java Configurations?
13. How is it done with Spring Boot?
14. What does `@Component` signify?
15. What does `@Autowired` signify?
16. What's the difference Between `@Controller`, `@Component`, `@Repository`, and `@Service` Annotations in Spring?
17. What is the default scope of a bean?
18. Are Spring beans thread safe?
19. What are the other scopes available?
20. How is Spring's singleton bean different from Gang of Four Singleton Pattern?
21. What are the different types of dependency injections?
22. What is setter injection?
23. What is constructor injection?
24. How do you choose between setter and constructor injections?
25. How does Spring do Autowiring?
26. What are the different kinds of matching used by Spring for Autowiring?
27. How do you debug problems with Spring Framework?
28. `NoUniqueBeanDefinitionException` `NoSuchBeanDefinitionException` What is `@Primary`? What is `@Qualifier`?
29. Name some of the design patterns used in Spring Framework?
30. Name some of the design patterns used in Spring Framework?
31. What is a Path Variable?
32. What is a Model Attribute?
33. What is a Session Attribute?
34. How do you implement common logic for Controllers in Spring MVC?
35. What is a Controller Advice?
36. What is `@ExceptionHandler`?
37. How to handle exceptions for web applications?
38. What are the important things to think about when implementing Exception Handling?
39. How do you implement Specific Error Handling for a Spring MVC Controller?