

Spring Framework

Introduction to Spring

- → What is Spring
- → How Spring fits into the Enterprise world
- → Spring Modules

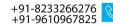
Spring Core(Basic Concepts) Theory/Practical

- → What is a Core Container
- → Introduction to IOC
- → Types of DI
- → Setter VS Constructor
- → Resolving Constructor Confusion
- → Collection DI
- → Bean Inheritance
- → Collection Merging
- → Inner Beans
- → Using IDRef
- → Bean Aliasing
- → Bean Scopes
- → Inner Beans
- → Null String
- → Bean Auto wiring
- → Nested Bean Factories

Spring Core(Advanced Concepts) Theory/Practical

- → Request Dispatcher
- → Resend Redirect
- → P Namespace

































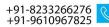
- → Dependency Check
- → Depends On
- → Factory Beans
- → Static Factory Method
- → Instance Factory Method
- → Aware Interfaces
- → Bean Lifecycle
- → Method Replacement
- → Lookup Method Injection
- → Property Editors
- → Bean Factory Postproces

Spring Core(3.0 Annotations) Theory/Practical

- → Spring VS Java Config Project annotations
- → @Required
- → @Autowire
- → @PostConstruct
- → @PreDestroy
- → @Qualifier
- → @Resource
- → @Component
- → @Service
- → @Controller
- → @Named
- → Various Annotation based Post Processors(AutowiredAnnotationBeanPostProcessor, CommonAnnotationBeanPostProcessor, PersistenceAnnotationBeanPostProcessor, RequiredAnnotationBeanPostProcessor)

Spring AOP Theory/Practical

























- → AOP Concepts
- → Programmatic VS Declarative AOP
- → Programmatic AOP
 - Types of Advices
 - ◆ Types of Pointcuts
 - Working with proxies
- → Declarative AOP
 - ◆ Using AOP 2.0 Config element
 - OGNL Expressions
- → Aspect J AOP

Spring Tx Theory/Practical

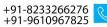
- → Aop 2.0 Configuration driven Transaction Management
- → Aspect J annotation based Transaction Management

Spring JDBC Theory/Practical

- → What is the DAO pattern?
- → Ways to implement Spring DAO
- → Choosing an approach for JDBC database access
- → JDBC Template
- → Executing Statements
- → Running Queries
- → SQL Parameters

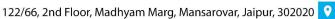
Spring MVC Theory/Practical

























- → Spring 3.0 features
- → Introduction to Spring MVC
- → Handler Mapping
- → Controllers
- → Validations
- → Handler Interceptors
- → Views
- → Form tags
- \rightarrow

Spring ORM

- → Spring Integration with ORM
- → Integrating with Hibernate
- → Creating and Injecting Hibernate Session Factory
- → Managing Transaction





