

# Spring Core

Spring IOC:-

Spring IOC is a container which creates and manages the objects looking into the configuration file for the classes mentioned in it.

Spring Bean:-

Spring bean are the objects created by IOC and stored there and ready for using directly in our methods using get bean method of Spring .

Dependency Injection:-

Injecting a value into variables of Java Class.

Two Types of DI:-

1. Setter Dependency Injection:- Using setter method
2. Constructor Dependency Injection:- Using Constructor

DI uses setter method internally.

Spring projects can be configured using XML Configuration & Java Configuration i.e Annotation.

Auto-wiring:- Creating object of classes.

Types of Auto-wiring:-

1. By Name
2. By Type
3. @Primary
4. @Qualifier

Spring Bean Scope:-

1. Singleton : Bean will be created once and reused throughout the application
2. Prototype : Bean will be created whenever requested.
3. Request : Spring will create bean whenever HTTP request is called.
4. Session : Spring will create bean for each HTTP session
5. Application : Bean will be created only once
6. Web Socket : Bean will be created only once for web socket environment

Usage: @Bean("singleton")

Life Cycle of Bean:-

