**Spring**

IOC: In software engineering, **inversion of control** (IOC) is a programming technique in which object coupling is bound at run time by an assembler object and is typically not known at compile time using static analysis.

Spring IOC: **Spring IOC** is the mechanism to achieve loose-coupling between Objects dependencies. To achieve loose coupling and dynamic binding of the objects at runtime, objects dependencies are injected by other assembler objects.

**What is spring framework and how its works?**

**Spring is** the most popular application development framework for enterprise Java. ... **Spring** framework targets to make J2EE development easier to **use** and promotes good programming practices by enabling a POJO-based programming model.

At its core, **Spring framework** is a dependency injection container, with a couple of convenience layers (think: database access, proxies, aspect-oriented programming, RPC, a web **mvc framework**) added on top. It helps you build Java application faster and more conveniently

Most important features of spring framework?

* i. Lightweight. The Spring Framework is very lightweight with respect to its size and functionality. ...
* ii. Aspect-Oriented Programming (AOP) ...
* iii. Transaction **Management**. ...
* iv. Container. ...
* v. Dependency Injection. ...
* vi. **Integration** with Other Frameworks.

**What is spring boot and how its works?**

**Spring Boot** is a lightweight framework that takes most of the **work** out of configuring **Spring**-based applications.