**Spring IoC Container**

* Spring IoC is the mechanism to achieve loose-coupling between Objects dependencies. Means Spring IoC Container is the core of Spring Framework. It creates the objects, configures and assembles their dependencies, manages their entire life cycle. The Container uses Dependency Injection (DI) to manage the components that make up the application.
* It gets the information about the objects from a configuration file (XML) or Java Code or Java Annotations. These objects are called **Beans**.
* To achieve loose coupling and dynamic binding of the objects at runtime, objects dependencies are injected by other assembler objects.
* Spring IoC container is the program that **injects** dependencies into an object and make it ready for our use.
* Spring IoC container classes are part of **org.springframework.beans** and

**org.springframework**.**context** packages.

* Spring IoC container provides us different ways to decouple the object dependencies.
* **BeanFactory** is the root interface of Spring IoC container.
* **ApplicationContext** is the child interface of **BeanFactory** interface that provide Spring AOP features, i18n etc.
* Some of the useful child-interfaces of **ApplicationContext** are **ConfigurableApplicationContext** and **WebApplicationContext**.