What is Spring ?

Spring is a Dependency injection framework to make java application loosely coupled.

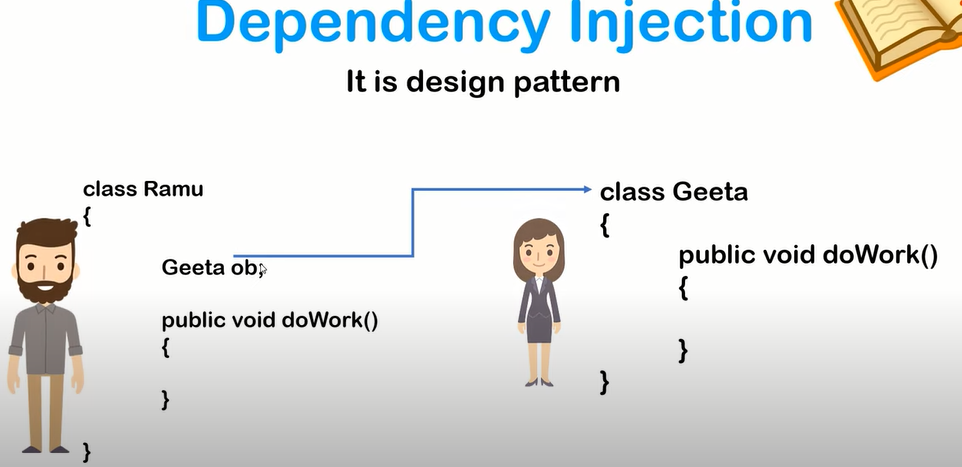
Spring framework makes the easy development of JavaEE application.

It was developed by Rod Johnson in 2003

Dependency Injection:

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It is design pattern.



Note: Ramu is depending on Geeta.

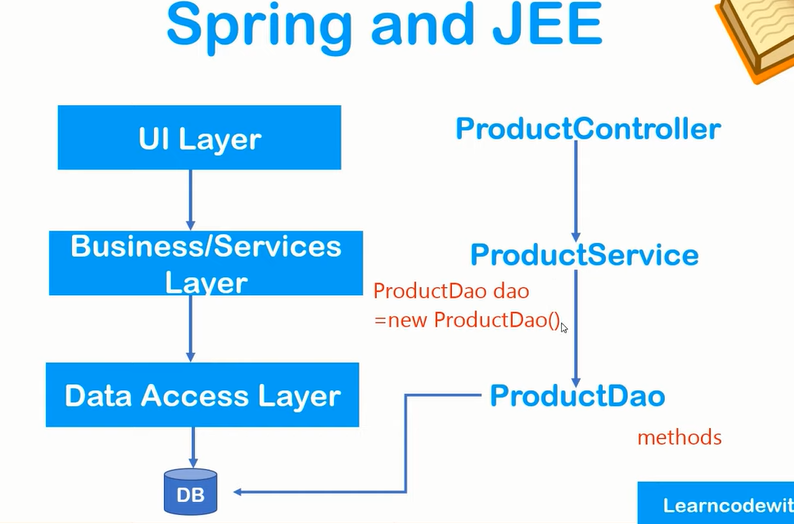
Inversion of control(IOC):

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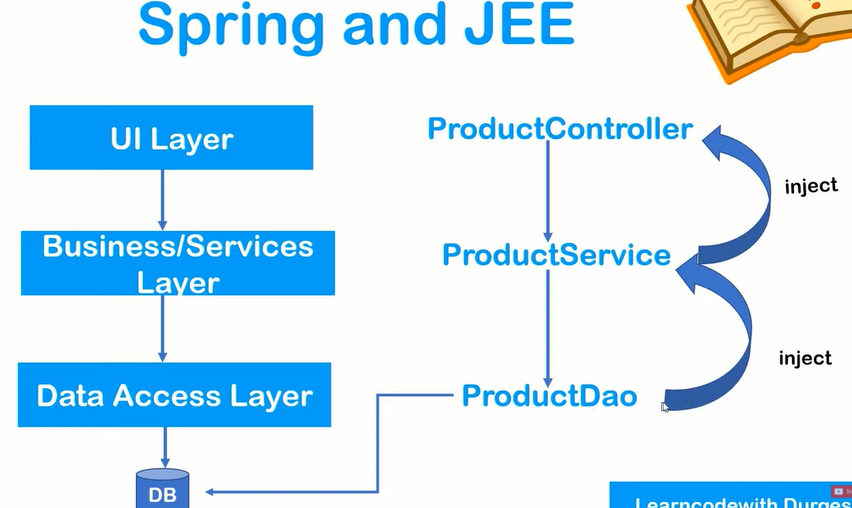
Object creation control gives to spring instead of manually developers creation. Spring will create object in run time and will do inject that is inversion of control.

Without IOC:

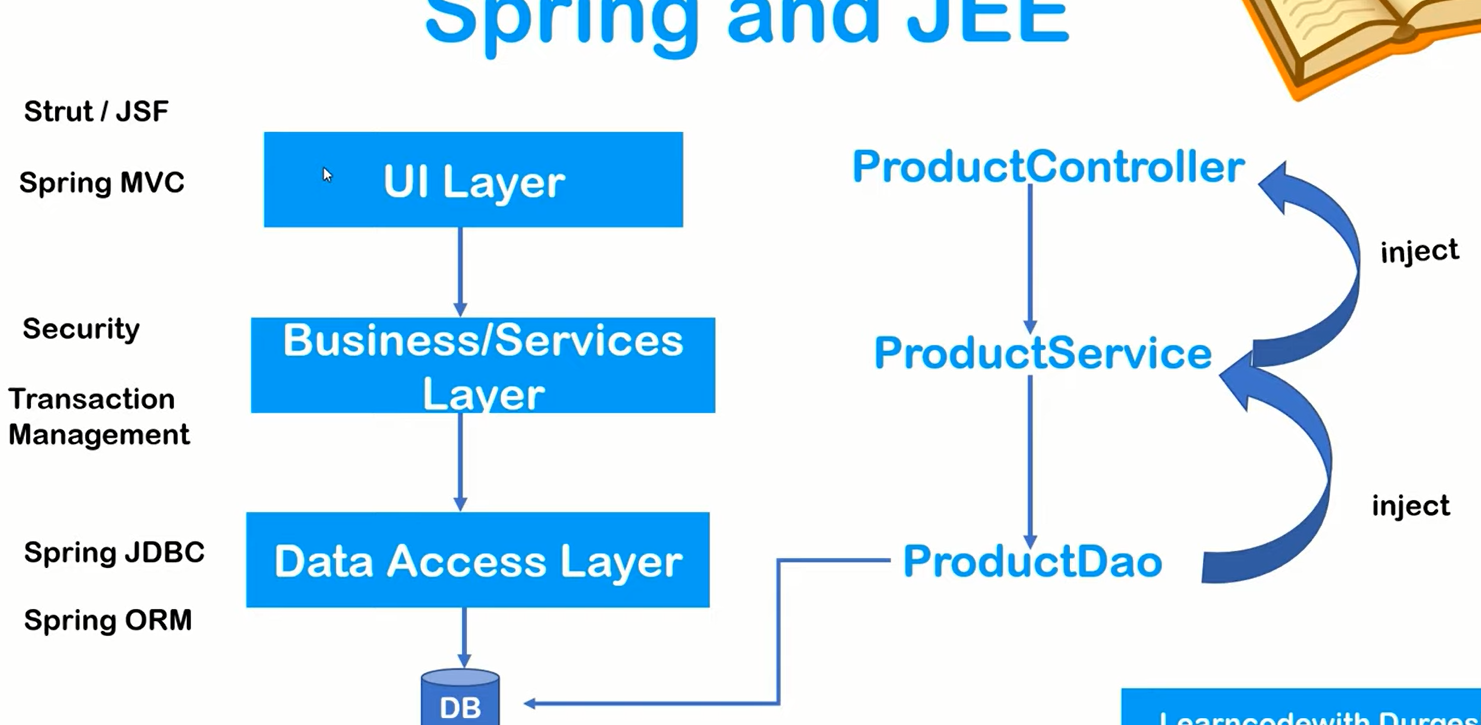
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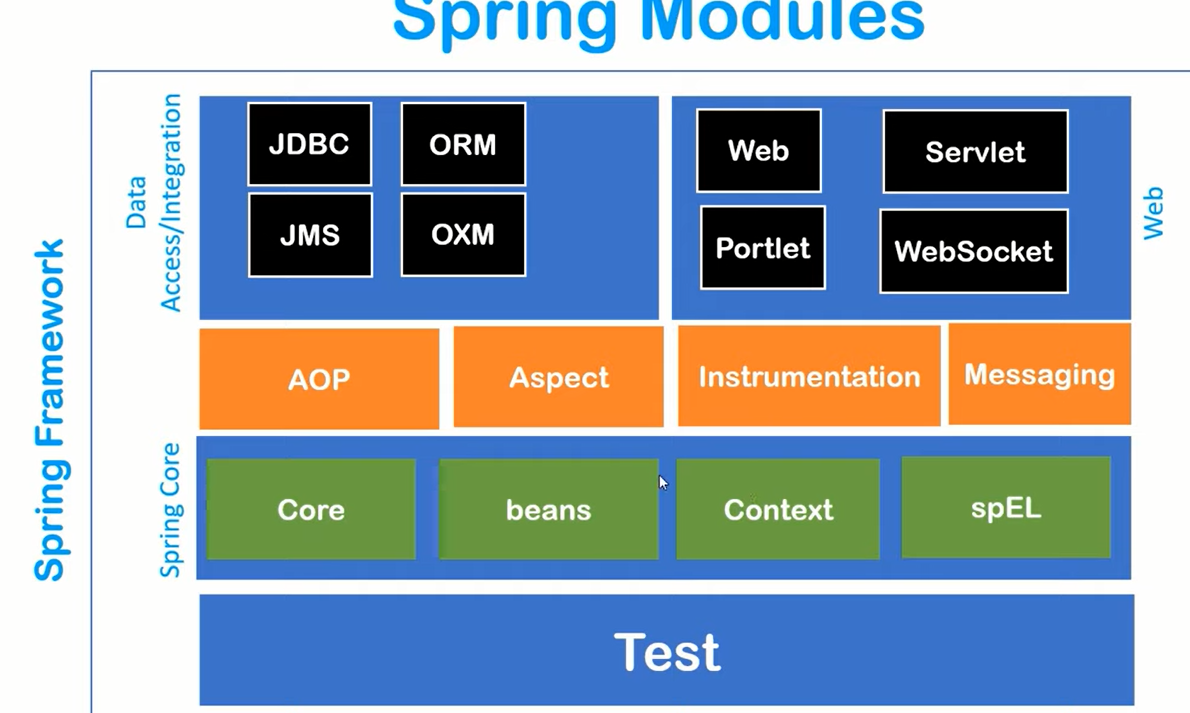


With IOC(benefit of spring):



Final overview:





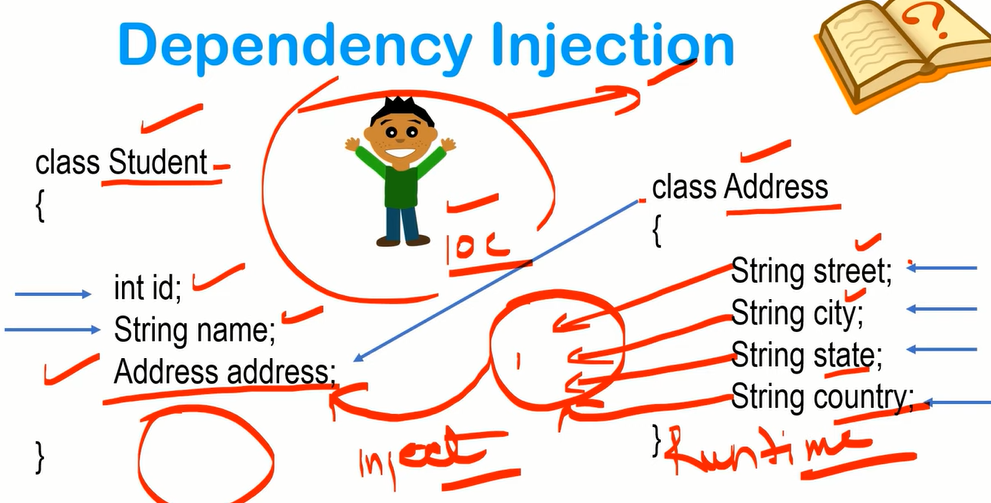
Spring IOC container:

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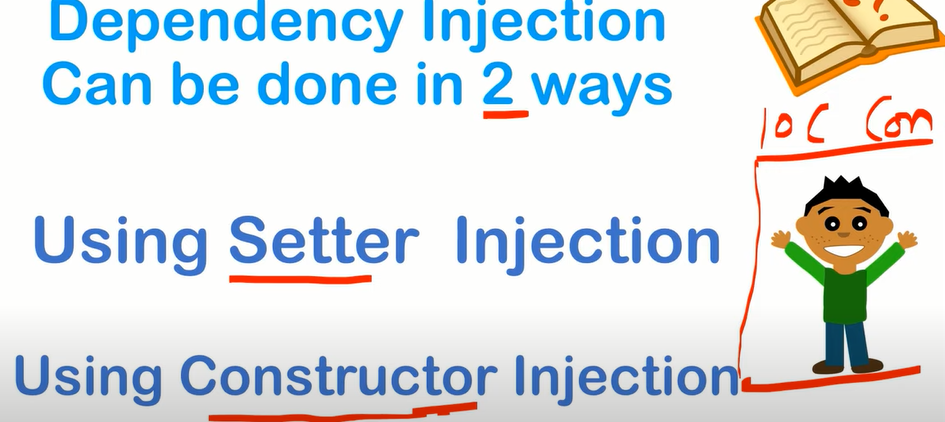
In spring project, spring IOC container combine automatically.

3 top task IOC do:

1. Create object.
2. Hold them in memory
3. Inject them in another object as required.



Dependency Injection can be done in two ways.



Setter Injection:

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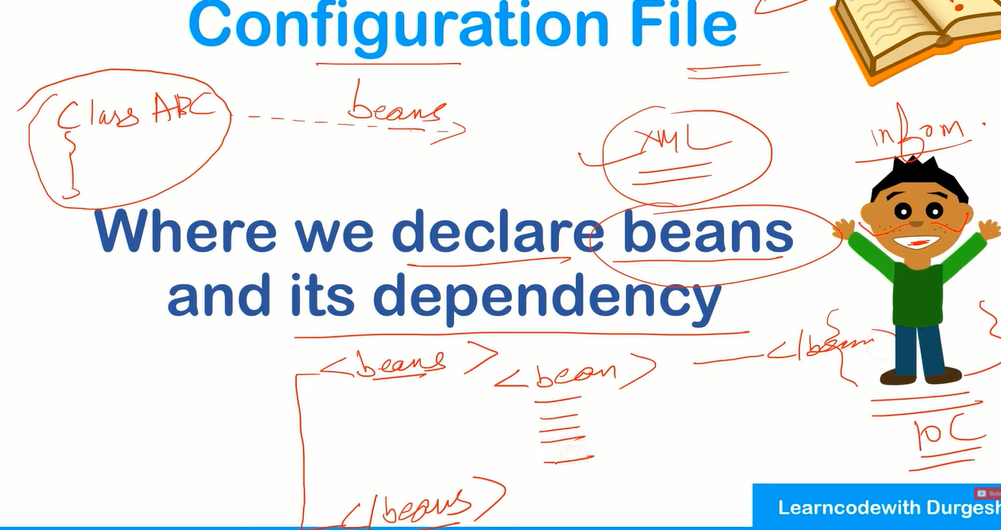
Constructor injection:

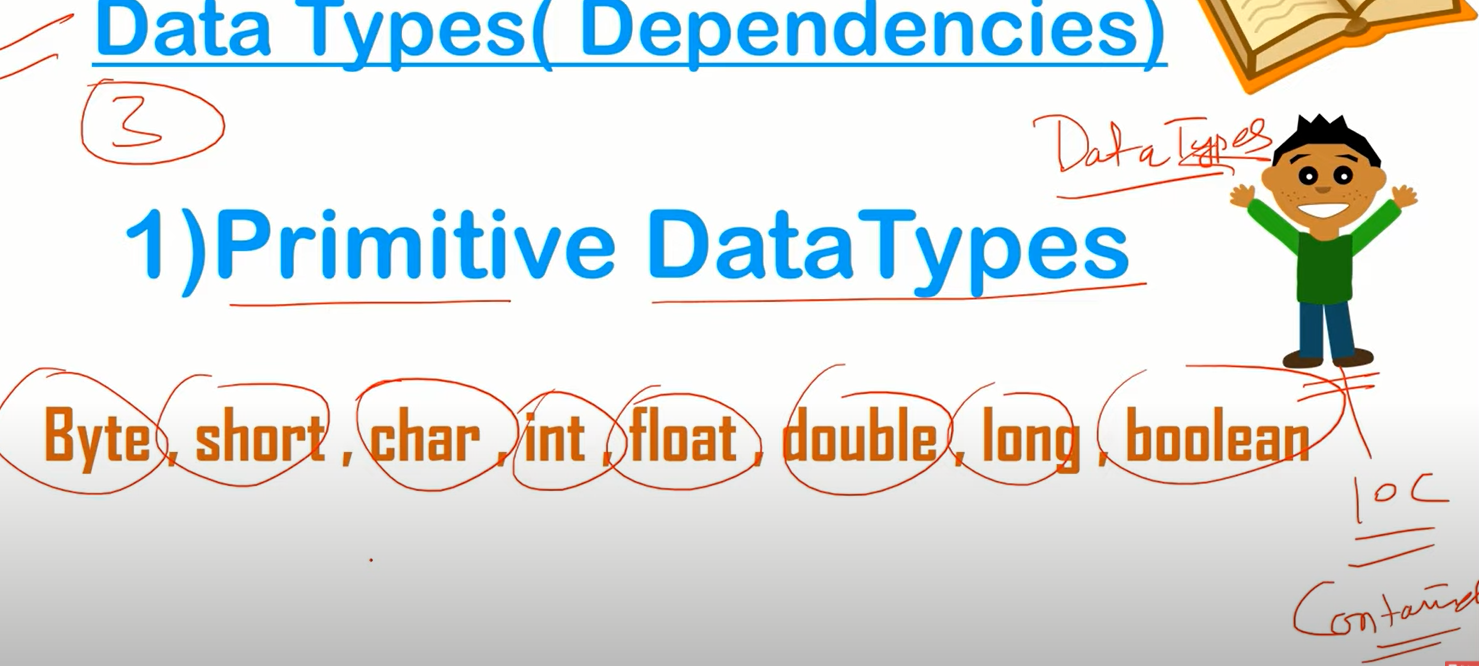
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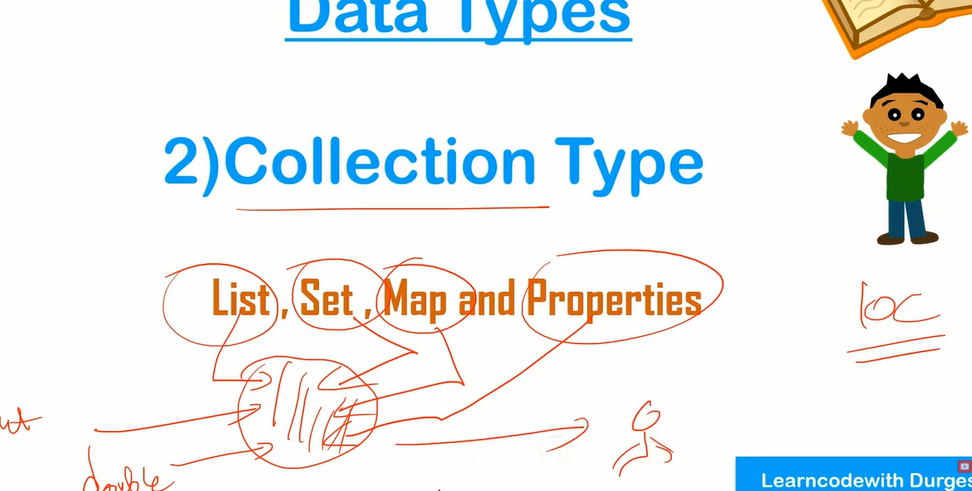


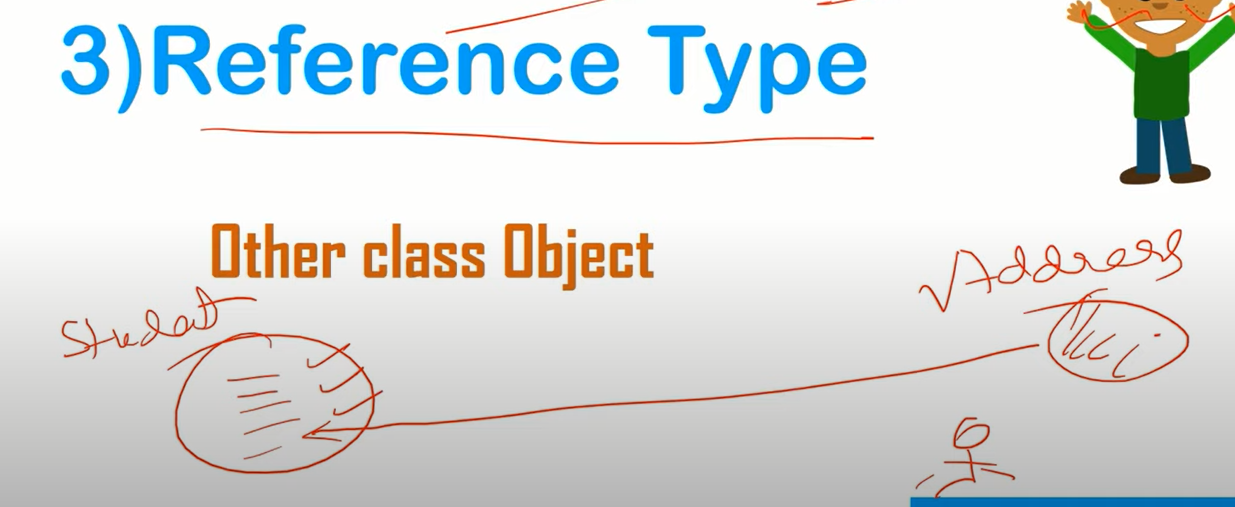
Configuration file:

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Note: Beans basically an object or class.