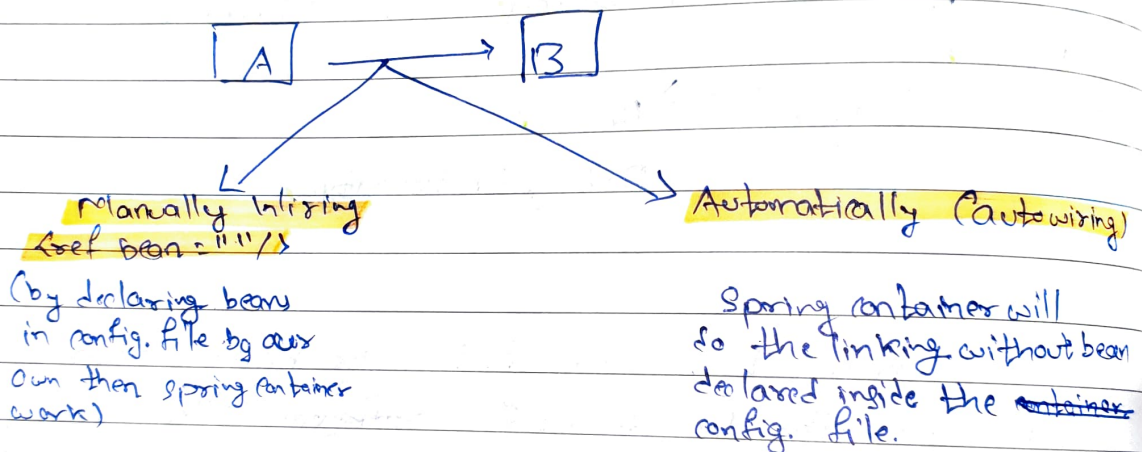# Auto Wiring In Spring:

→ **AutoWiring:** Features of Spring Framework in which spring container inject the dependencies automatically.

Disadvantage: It can't be used to inject primitive & String values. It works with reference only. (Object).

Used only for object.

When we link one object to another that's what known as wiring & spring container do the linking automatically i.e. why it's called as auto wiring.

Manually Wiring
<ref bean = "" />
(by declaring beans
in config. file by our
own then spring container
work)

Automatically (Auto wiring)
Spring container will
do the linking without bean
declared inside the container
config. file.

--→ Two ways to use/implement autowiring:

　　　(i) XML file

　　　(ii) Annotation.

(i) XML file: There are some modes to use auto wiring using XML file.

　　→ no : By default its not enable (if you don't discribe in bean)

→ byName : Container will search dependencies name & then inject.

→ byType : Container will search type & then inject after finding that type

→ Constructor : By calling constructor we can inject dependencies.

→ autodetect : It's deprecated since Spring 3.

(ii) **Annotations:**

~~@acts~~ **@Autowired** : It'll **automatically inject dependency.**

We can use ~~less~~ more ~~@~~annotations with ~~@Aut~~ @Autowiring:

      (i) Qualifier Annotation

      (ii) At value Annotation: Defining values.

       etc.

~~Advantage:~~ **Advantages:** (i) **Automatic (Dependency Injection done automatically**

              (ii) **Less code.**

Disadvantage: (i) **No control of programmer.**

            (ii) **It can't be used for primitive & string values.**