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## Autowiring

- Autowiring is a feature of spring framework that enables to inject the object dependency implicitly.
- It internally uses setter or constructor injection. [Default injection]
- Autowiring can't be used to inject primitive and string values. It works with reference only.
- Autowiring by constructor is similar to byType. It is applied to constructor arguments.



### **Annotations**

Annotations are instructions to the compiler

Meta data / data about code

### @Override

Checks that the method is an override.

```
Ex:

@Override
public String toString() {
    return "Welcome !";
}
```



### @SuppressWarnings

Instructs the compiler to suppress the compile time



## @Autowired

@Autowired annotation is used to inject a bean automatically with out using ref attribute

Normal configuration:



### @Autowired....

### With @Autowired

```
<bean id="emp" class="Employee">
  </bean>
<bean id="address" class="Address">
  </bean>
Employee class
@Autowired
 public void setAddress(Address address) {
   this.address = address;
```

\*\* Example



# @Component

@Component annotation marks a java class as a bean

So spring container can pick it up and pull it into the application

Called as component-scanning.

### No need of configuring it

```
Ex:
```

```
@Component
public class Employee {
}
```

\*\* Example



## @Qualifier

### @Qualifier

To Select a specific component bean of same type with autowired dependency

In the Profile class:

- @Autowired
- @Qualifier("student1")



\*\*Example

# @Required

### @Required

- The @Required annotation in spring is a method-level annotation.
- It is applied to the setter method of a bean property and thus making the setter-injection mandatory.

```
<!-- Used to activate the @Required annotation in Spring -->
<context:annotation-config />

<bean id="employee" class="com.mycompany.springcore.required.Employee">
<!-- Required property -->
<property name="name" value="Venkat" />
<!-- Required property -->|
<property name="designation" value="Technical Leader" />
<property name="designation" value="Technical Leader" />
<property name="company" value="Optimum Services Ltd." />
</bean>
```



\*\*Example



