

## 1 What is Autowiring and different types of Autowiring.?

**Autowiring** : Autowiring feature of spring framework enables you to inject the object dependency implicitly. It internally uses setter or constructor injection. Autowiring can't be used to inject primitive and string values. It works with reference only.

### Different types of Autowiring :

- **byName**
- **byType**
- **constructor**

## 2 Explain Autowiring byName and its Syntax.?

**byName** : The byName mode injects the object dependency according to name of the bean. In such case, property name and bean name must be same. It internally calls setter method.

### SYNTAX:

```
<bean id="a" class="model.Employee" autowire="byName"></bean>
```

## 3 Explain Autowiring byType and its Syntax.?

**ByType** : The byType mode injects the object dependency according to type. So, property name and bean name can be different. It internally calls setter method.

### SYNTAX:

```
<bean id="a" class=" model.Employee " autowire="byType"></bean>
```

## 4 What is Constructor Injection and its importance.?

**Constructor Injection:** *CONSTRUCTOR INJECTION* is the act of statically defining the list of required *DEPENDENCIES* by specifying them as parameters to the class's constructor. We can inject the dependency by constructor. The **<constructor-arg>** sub element of **<bean>** is used for constructor injection.

There are two ways for creating the construction injection:

```
1 <bean id="emp" name =" models.Employee" autowire="constructor">
```

```
2 <bean id="emp" name =" models.Employee">
```

```
    <constructor-arg><ref bean =dept"></ constructor-arg></bean>
```

