

bean Tag and Attributes

- `<bean>`: Defines an object (bean) that Spring will manage.
- `id`: Unique name to identify the bean within this container ("country" here).
- `class`: The fully qualified class name to instantiate (com.cognizant.spring_learn.Ex_4_Country).
- `<property>`: Sets the value of the given property (must match fields and setters).
 - `name`: Name of the property/field (e.g., "code", "name").
 - `value`: Value to set.

What is ApplicationContext and ClassPathXmlApplicationContext?

- **ApplicationContext**: Central interface for providing configuration to an application. It manages beans, their lifecycle, and dependencies.
- **ClassPathXmlApplicationContext**: Loads an XML configuration file from the classpath and creates bean instances declared in the file.

What Happens During context.getBean()?

1. Spring parses country.xml and instantiates the Country bean.
2. The default (no-arg) constructor is called (Inside Country Constructor log).
3. Spring sets the properties by calling the `setCode()` and `setName()` methods (setCode/setName called logs).
4. When you call `getBean("country", Ex_4_Country.class)`, Spring provides the instantiated bean.
5. Using the bean triggers any getter calls, which are logged as well.
6. `toString()` prints the current state of the object.