

XML elements of configuration file-

<bean> is the main element of configuration file that is used to specify the configuration of a bean.

It has following attributes-

Id is an optional attribute that is used to give an alias to a <bean>.

Class is an optional attribute that specifies the fully qualified name of the bean class.

Factory-method is an optional attribute that specifies the name of the factory method to be used by the IOC container for creating the bean.

Scope is an optional attribute which specifies whether the bean is singleton or prototype. By default, all beans are singleton, i.e., the IOC container creates a single instance and returns its reference each time the bean is requested. In the case of a prototype bean, each time the bean is requested, a new instance is created.

<bean id = "uniqueIdentifier"* name = "alias"*

Class = "beanClassName"* factory-bean = "ref of factory bean"*

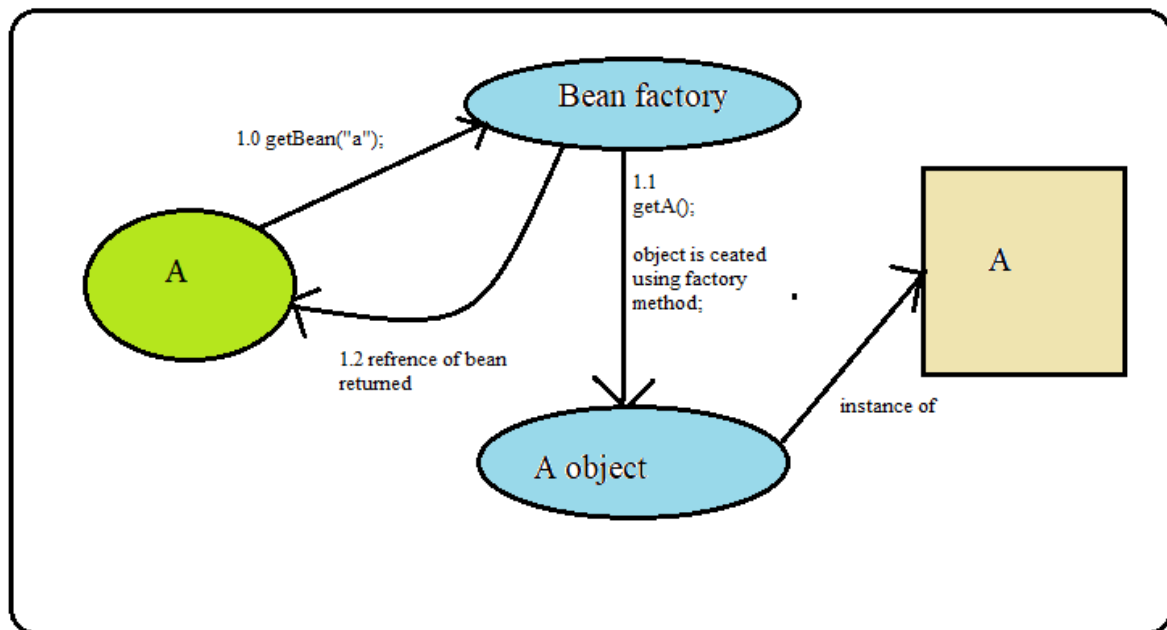
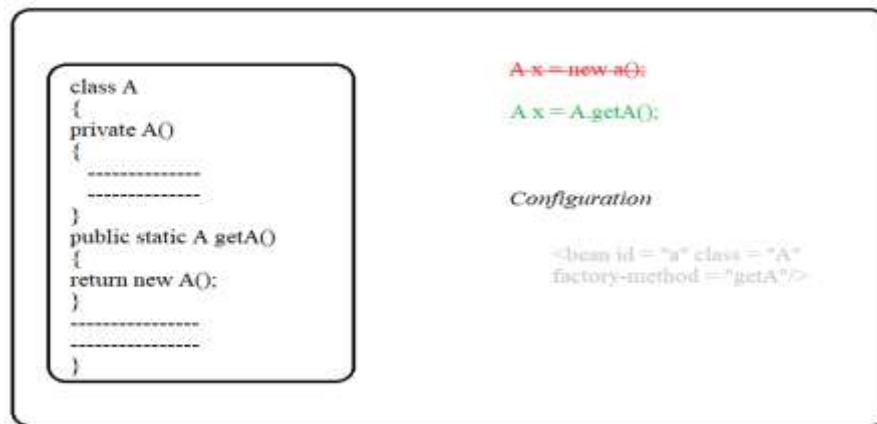
Scope = "singleton/prototype"* 0 0 0/>

* -represents optional.

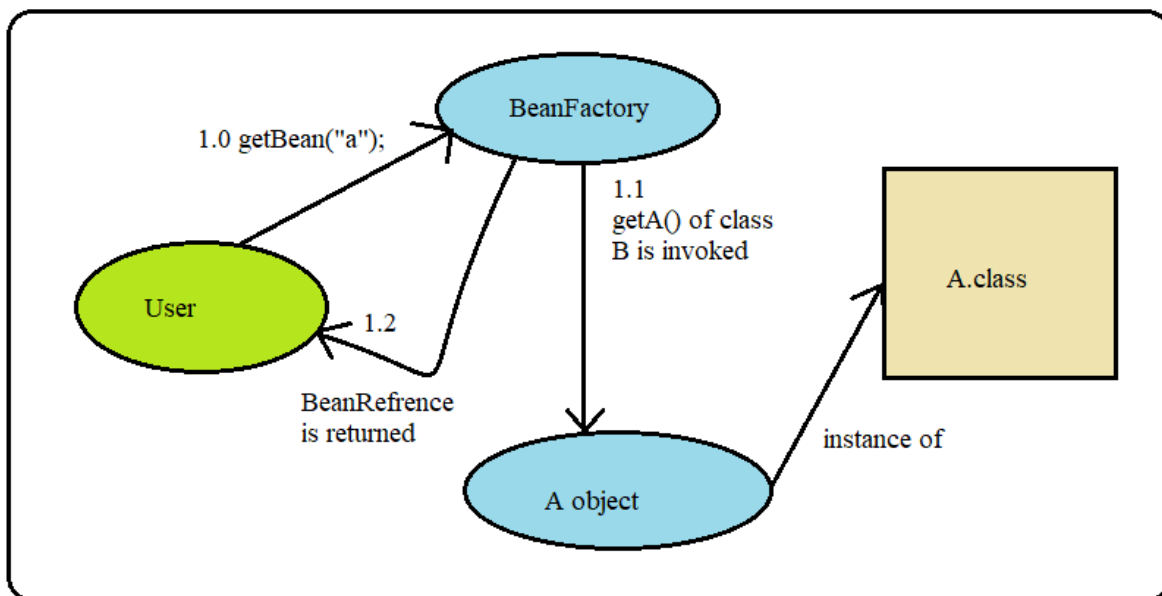
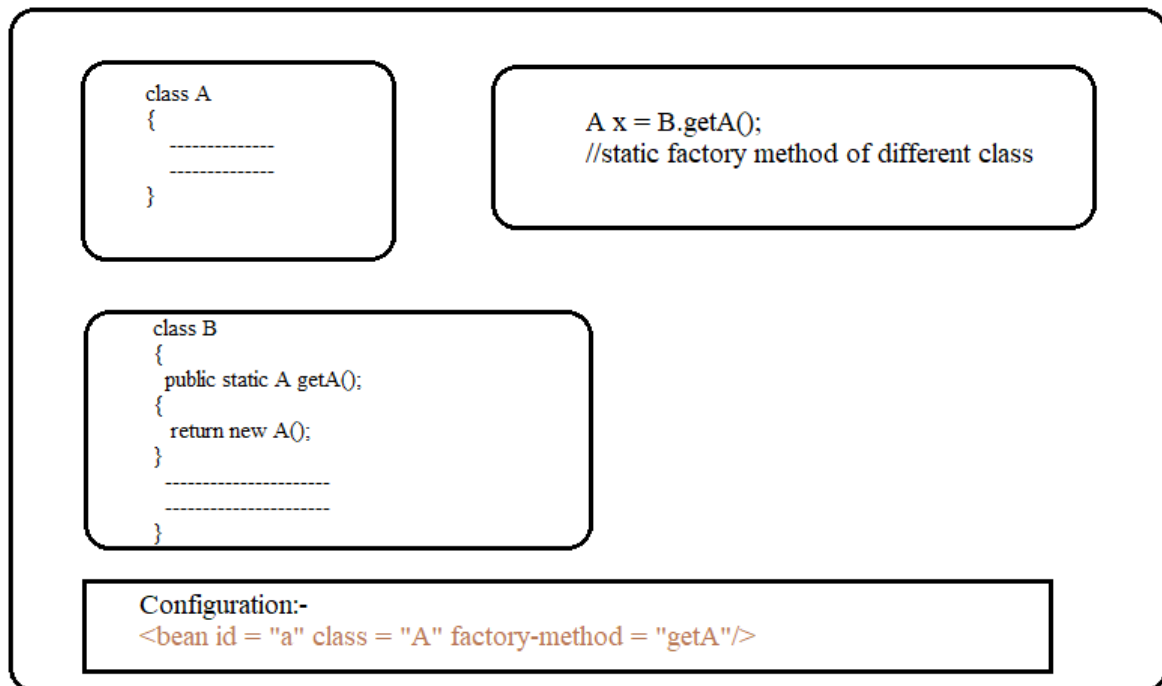
Using factory for creating a bean-

- ❖ IOC Container can create a bean using a factory method. A factory method can be implemented in one of the following three ways-
 - **static factory** method in same class.
 - **static factory** method in different class.
 - **Non-static** factory method in different class

- ❖ *static factory method in same class.*



❖ *Static factory method in a different class.*



❖ *Non-static factory method in a different class.*

```
class A
{
    .....
    .....
}
```

30/05/2025

Class B

```
{  
    Public A getA()  
{  
    Return new A();  
}  
-----  
-----  
}
```