# Hands on 2 Spring Core – Load SimpleDateFormat from Spring Configuration XML

SimpleDateFormat with the pattern 'dd/MM/yyyy' is created in multiple places of an application. To avoid creation of SimpleDateFormat in multiple places, define a bean in Spring XML Configuration file and retrieve the date.

## Follow steps below to implement:

- Create spring configuration file date-format.xml in src/main/resources folder of 'spring-learn' project
- Open https://docs.spring.io/spring-framework/docs/current/spring-framework-reference/core.html#beans-factory-metadata
- Copy the XML defined in the section of previous step URL and paste it into dateformat.xml
- Define bean tag in the XML with for date format. Refer code below.

- Create new method displayDate() in SpringLearnApplication.java
- In displayDate() method create the ApplicationContext. Refer code below:

ApplicationContext context = new ClassPathXmlApplicationContext("date-format .xml");

• Get the dateFormat using getBean() method. Refer code below.

SimpleDateFormat = context.getBean("dateFormat", SimpleDateFormat.c lass);

- Using the format variable try to parse string '31/12/2018' to Date class and display the result using System.out.println.
- Run the application as 'Java Application' and check the result in console log output.

## **Troubleshooting Tips**

If the tomcat port has a conflict and the server is not starting include the below property in application.properties file in src/main/resources folder.

### **Date-format.xml**

## SpringLearnApplication.java

```
package com.cognizant.spring_learn;
import java.text.ParseException;
import java.text.SimpleDateFormat;
import java.util.Date;
```

```
import org.springframework.context.ApplicationContext;
import org.springframework.context.support.ClassPathXmlApplicationContext;
public class SpringLearnApplication {
  public static void main(String[] args) throws ParseException {
   displayDate(); // Call the method here
 }
  public static void displayDate() throws ParseException {
   // Load Spring XML config
   ApplicationContext context = new ClassPathXmlApplicationContext("date-format.xml");
   // Retrieve dateFormat bean
   SimpleDateFormat format = context.getBean("dateFormat", SimpleDateFormat.class);
   // Parse the date
   String dateString = "31/12/2018";
   Date parsedDate = format.parse(dateString);
   // Print the result
   System.out.println("Parsed Date: " + parsedDate);
 }
}
```

#### Result:

```
cterminated > SpringLearnApplication [Java Application] C:\Users\sanga\.p2\pool\plugins\org.eclipse.justj.op
Parsed Date: Mon Dec 31 00:00:00 IST 2018
```