

Spring– L1: Trend NXT Hands-on Assignments

Estimated Efforts: 2PDs

Trend NXT URL [https://wipro365.sharepoint.com/sites/ku-practice-4101/KMSitesContent/gdo1/JavaSkills/Skills TOC/Spring L1 LG.aspx](https://wipro365.sharepoint.com/sites/ku-practice-4101/KMSitesContent/gdo1/JavaSkills/Skills%20TOC/Spring%20L1%20LG.aspx)

Top Gear Community: Spring

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ToC : TCA ADM-Spring-L1

Topic Name	Min No of assignments to be done for Hands on
Spring Framework Overview	
Spring Framework Architecture	
Spring Environment Setup	
Spring Hello World Example	1
Spring Basics	2
Spring IoC Containers	
Spring Bean Definition	
Spring Bean Scopes	
Spring Bean Life Cycle	
Spring Bean Post Processors	
Spring Bean Definition Inheritance	
Spring Dependency Injection	2
Inversion of Control	
Spring Injecting Inner Beans	
Spring Injecting Collection	
Spring Beans Auto-Wiring	
Spring Annotation Based Configuration	
Spring Java Based Configuration	

Topics Covered:

Spring Hello World

Assignment-1

Write a simple Spring Application to print “Hello World”.

Spring Basics:-

Assignment-1

A Model class “Movie” has the below properties

- movieId – String – E.g.: M001
- movieName – String – E.g.: The Firm
- movieActor – String – E.g.: Tom Cruise
- Create a spring xml configuration file to create a bean entry for the Movie object with some sample property values

The client program should be able to display all the details of the Movie object on the console.

Assignment 2:

- Re-write the solution of Assignment 1 but this time use Annotations to configure your application instead of xml configurations.

Dependency Injection and Inversion of Control

Assignment 1:

There are two Model classes as below:

Student

studentId -> String -> S001
 studentName -> String -> Steve
 studentTest -> Object of type Test (could be a collection variety also if you need to store more than 1 test details)

Test

testId -> String -> T001
 testTitle -> String -> "Core Java Test"
 testMarks -> int -> 80

Create a spring program to create 2 student instances. First student has taken up only one test and the Second student has taken up 2 tests.

In the client program display all the details of both the students along with their test details as well.

Assignment 2:

There are two Model classes as below:

Player

- playerId -> String -> P001
- playerName -> String -> Sachin
- country -> Object -> of type 'Country'

Country

- countryId -> String -> C001
- countryName -> String -> 'India'

Every player belongs to a particular country. Create a spring program to create 5 players and 2 countries. 2 players belong to one country and the other 3 players belong to another country.

The client program should display the details of all players and their corresponding country details. If given a country name, it should also display all the player names who belong to that country.