

***Spring Framework***

**Training Assignment**

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| Document Code | 25e-BM/HR/HDCV/FSOFT |
| Version | 1.1 |
| Effective Date | 20/11/2012 |

**Hanoi, 06/2019**

RECORD OF CHANGES

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| --- | --- | --- | --- | --- | --- |
| No | Effective Date | Change Description | Reason | Reviewer | Approver |
|  | 01/May/2019 | Create a new assignment | Create new | DieuNT1 | VinhNV |
|  | 10/Jul/2019 | Update: rename | Update | DieuNT1 | VinhNV |
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|  | **CODE : JSFW.M.A101**  **TYPE : MEDIUM**  **LOC : N/A**  **DURATION : 120 minutes** |

# Unit 1: Spring Core

Objectives:

After finishing the following exercises, trainees will:

1. Understand and practice with OOP, IO
2. Understand and practice with Spring core (IoC, DI)

Problem Descriptions:

Write a class named **Pet.java** implements **Serializable** has:

* 1. Three attributes**: String name, String type, int age**.
  2. One constructor with all attributes as parameter.
  3. One function: void **makeNoise**(). For example: the cat named Mowzer will print **"** **Mowzer cat says meow"**
  4. Override **toString()** method follow as:

@Override

public String toString() {

return "Pet [type=" + type + ", name=" + name + ", age=" + age + "]";

}

Write a class named **IOService.java** has:

1. Function **void savePest(List<Pet> pets)** will save list pets in parameter to file named **pets.txt.**
2. Function **List<Pet> getPets()** will read file **pets.txt** and return content as list of pets.

Write a class named **Test.java** has:

1. Attribute **IOService iOService**;
2. A main method, you should:
   1. Create a list of pets and call method **savePet**() from **IOService**  to save this list to file **pets.txt**
   2. Call method **getPets** to get list saved pet, loop in this list and call **makeNoise**() method.

*Notice: Create bean for class* ***IOService*** *and inject value for attribute* ***iOService*** *of class* ***Test.java.***

Technical Requirements:

* JDK 1.8 +
* Maven 3 +

**-- THE END --**