

# Spring Professional Exam Tutorial v5.0

## Question 03

## Question 03 - What is an interface and what are the advantages of making use of them in Java? Why are they recommended for Spring beans?

OOP Definition - An interface is a description of actions that object can do, it is a way to enforce actions on object that implements the interface

Java Definition - An interface is a reference type, which contains collections of abstract method. Class that implements the interface, must implement all methods from this interface, or it needs to declare methods as abstract if object does not know how to implement specified method. Java Interface may contain also:

- ▶ Constants
- ▶ Default Methods (Java 8)
- ▶ Static methods
- ▶ Nested types

## Question 03 - What is an interface and what are the advantages of making use of them in Java? Why are they recommended for Spring beans? (cont.)

### Advantages of using interfaces in Java:

- ▶ Allows decoupling between contract and its implementation
- ▶ Allows declaring contract between callee and caller
- ▶ Increases interchangeability
- ▶ Increases testability

### Advantages of using interfaces in Spring:

- ▶ Allows for use of JDK Dynamic Proxy
- ▶ Allows implementation hiding
- ▶ Allows to easily switch beans

