

Lab 02 RSMortgage Spring Framework Introduction

**RSMortgage Spring Framework Introduction**

Udemy Spring Cloud Course

Presented By

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**Rolling Stone Technology**

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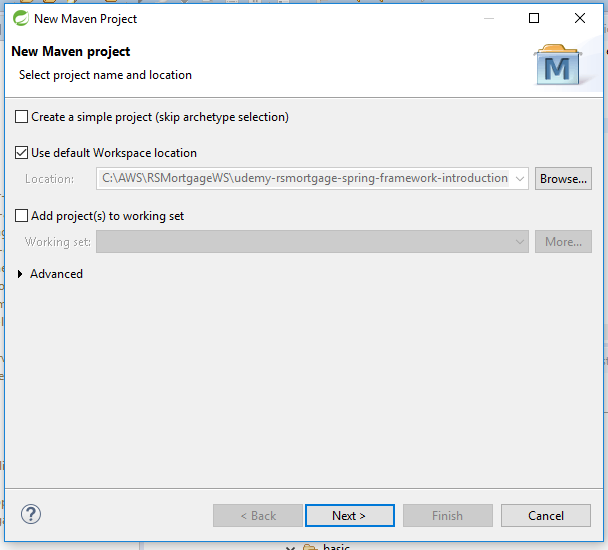
Chapter 1

*Spring Framework Introduction Project Creation*

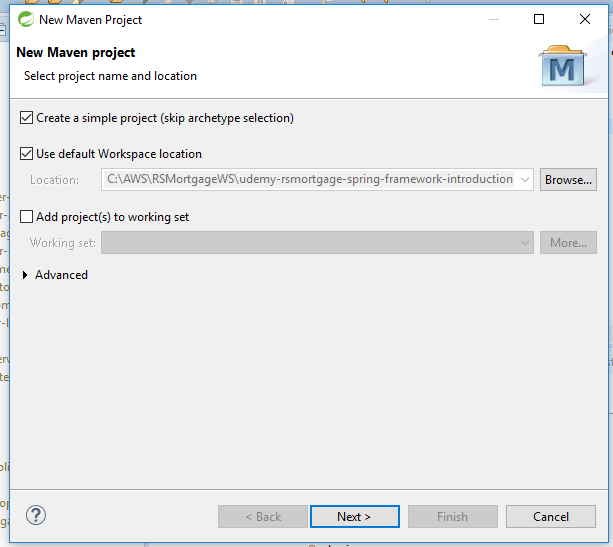
1.0 - Introduction

The purpose of this guide is to help walk through the process of creating a Spring Framework Maven Project application.

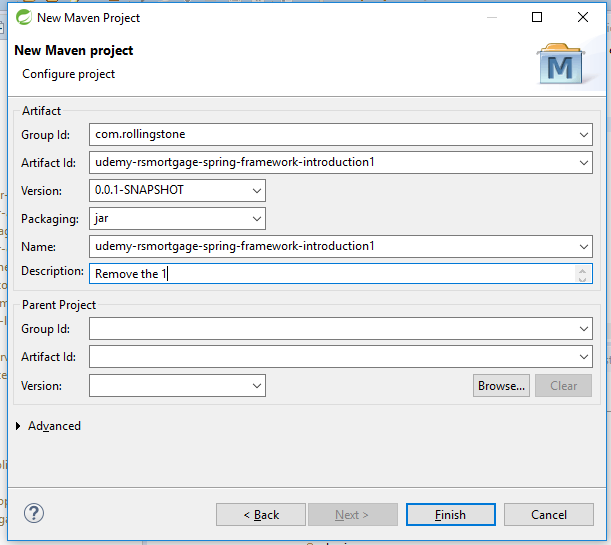
1.1 – Create a new Maven Starter Project



1.2 – Check the simple project checkbox



1.3 – Fill initial values



.

1.4 – Click Finish Now



1.5 – Verify the project identification in the pom.xml

<groupId>com.rollingstone</groupId>

<artifactId>udemy-rsmortgage-spring-aop-afterretruning</artifactId>

<version>0.0.1-SNAPSHOT</version>

<name>udemy-rsmortgage-spring-framework-introduction</name>

<description>udemy-rsmortgage-spring-framework-introduction</description>

1.6 – Add Properties

<properties>

<logback.version>1.1.1</logback.version>

<jcloverslf4j.version>1.7.6</jcloverslf4j.version>

<slf4j.version>1.6.4</slf4j.version>

</properties>

1.7 – Add Dependencies

<dependencies>

<!-- https://mvnrepository.com/artifact/org.springframework/spring-core -->

<dependency>

<groupId>org.springframework</groupId>

<artifactId>spring-core</artifactId>

<version>4.3.7.RELEASE</version>

</dependency>

<!-- https://mvnrepository.com/artifact/org.springframework/spring-context -->

<dependency>

<groupId>org.springframework</groupId>

<artifactId>spring-context</artifactId>

<version>4.3.7.RELEASE</version>

<exclusions>

<exclusion>

<groupId>commons-logging</groupId>

<artifactId>commons-logging</artifactId>

</exclusion>

</exclusions>

</dependency>

<!-- https://mvnrepository.com/artifact/org.springframework/spring-aop -->

<dependency>

<groupId>org.springframework</groupId>

<artifactId>spring-aop</artifactId>

<version>4.3.7.RELEASE</version>

</dependency>

<!-- https://mvnrepository.com/artifact/aspectj/aspectjrt -->

<dependency>

<groupId>org.aspectj</groupId>

<artifactId>aspectjrt</artifactId>

<version>1.6.11</version>

</dependency>

<dependency>

<groupId>org.springframework</groupId>

<artifactId>spring-aspects</artifactId>

<version>4.3.7.RELEASE</version>

</dependency>

<dependency>

<groupId>org.aspectj</groupId>

<artifactId>aspectjweaver</artifactId>

<version>1.6.11</version>

</dependency>

<!-- LogBack dependencies -->

<!-- https://mvnrepository.com/artifact/ch.qos.logback/logback-classic -->

<dependency>

<groupId>ch.qos.logback</groupId>

<artifactId>logback-classic</artifactId>

<version>1.2.2</version>

</dependency>

<dependency>

<groupId>org.slf4j</groupId>

<artifactId>jcl-over-slf4j</artifactId>

<version>${jcloverslf4j.version}</version>

</dependency>

<!-- https://mvnrepository.com/artifact/ch.qos.logback/logback-core -->

<!-- https://mvnrepository.com/artifact/ch.qos.logback/logback-core -->

<dependency>

<groupId>ch.qos.logback</groupId>

<artifactId>logback-core</artifactId>

<version>1.2.2</version>

</dependency>

</dependencies>

1.8 –Create new java package for

* com.rollingstone.springframework.basic.ioc.contructor.injection.first
* com.rollingstone.springframework.basic.ioc.contructor.injection.collection.second
* com.rollingstone.springframework.basic.ioc.setter.injection.third
* com.rollingstone.springframework.basic.ioc.real.life.examples.fourth
* com.rollingstone.springframework.aop.example.fifth

1.9 –Create the Customer class in package first

package com.rollingstone.springframework.basic.ioc.contructor.injection.first;

import java.util.Date;

public class Customer {

private long customerId;

private String firstName;

private String lastName;

private Date dob;

public long getCustomerId() {

return customerId;

}

public void setCustomerId(long customerId) {

this.customerId = customerId;

}

public String getFirstName() {

return firstName;

}

public void setFirstName(String firstName) {

this.firstName = firstName;

}

public String getLastName() {

return lastName;

}

public void setLastName(String lastName) {

this.lastName = lastName;

}

public Date getDob() {

return dob;

}

public void setDob(Date dob) {

this.dob = dob;

}

public Customer(long customerId, String firstName, String lastName, Date dob) {

super();

this.customerId = customerId;

this.firstName = firstName;

this.lastName = lastName;

this.dob = dob;

}

public Customer() {

super();

}

}

1.10 –Create the Investment class in package first

package com.rollingstone.springframework.basic.ioc.contructor.injection.first;

import java.time.LocalDate;

import org.springframework.format.annotation.DateTimeFormat;

public class Investment {

private String investmentId;

private String investmentName;

private String investmentDescription;

private LocalDate investmentStartDate;

private LocalDate invetsmentMaturityDate;

public String getInvestmentId() {

return investmentId;

}

public void setInvestmentId(String investmentId) {

this.investmentId = investmentId;

}

public String getInvestmentName() {

return investmentName;

}

public void setInvestmentName(String investmentName) {

this.investmentName = investmentName;

}

public String getInvestmentDescription() {

return investmentDescription;

}

public void setInvestmentDescription(String investmentDescription) {

this.investmentDescription = investmentDescription;

}

public LocalDate getInvestmentStartDate() {

return investmentStartDate;

}

@DateTimeFormat(iso = DateTimeFormat.ISO.DATE)

public void setInvestmentStartDate(LocalDate investmentStartDate) {

this.investmentStartDate = investmentStartDate;

}

public LocalDate getInvetsmentMaturityDate() {

return invetsmentMaturityDate;

}

@DateTimeFormat(iso = DateTimeFormat.ISO.DATE)

public void setInvetsmentMaturityDate(LocalDate invetsmentMaturityDate) {

this.invetsmentMaturityDate = invetsmentMaturityDate;

}

public Investment(String investmentId, String investmentName, String investmentDescription,

LocalDate investmentStartDate, LocalDate invetsmentMaturityDate) {

super();

this.investmentId = investmentId;

this.investmentName = investmentName;

this.investmentDescription = investmentDescription;

this.investmentStartDate = investmentStartDate;

this.invetsmentMaturityDate = invetsmentMaturityDate;

}

public Investment(String investmentId, String investmentName, String investmentDescription) {

super();

this.investmentId = investmentId;

this.investmentName = investmentName;

this.investmentDescription = investmentDescription;

}

public Investment() {

super();

}

@Override

public String toString() {

return "Investment [investmentId=" + investmentId + ", investmentName=" + investmentName

+ ", investmentDescription=" + investmentDescription + ", investmentStartDate=" + investmentStartDate

+ ", invetsmentMaturityDate=" + invetsmentMaturityDate + "]";

}

}

1.11 –Create the LocalDateFactory class in package first

package com.rollingstone.springframework.basic.ioc.contructor.injection.first;

import java.time.LocalDate;

import java.time.format.DateTimeFormatter;

public class LocalDateFactory {

static DateTimeFormatter formatter = DateTimeFormatter.ofPattern("yyyy-MM-dd");

public static LocalDate createLocalDate(String localDateString)

{

LocalDate localDate = LocalDate.parse(localDateString);

return localDate;

}

}

1.12 –Create the LocalDateTimeFactory class in package first

package com.rollingstone.springframework.basic.ioc.contructor.injection.first;

import java.time.LocalDateTime;

import java.time.format.DateTimeFormatter;

public class LocalDateTimeFactory {

public static LocalDateTime createLocalDateTime(String localDateTimeString)

{

DateTimeFormatter formatter = DateTimeFormatter.ofPattern("yyyy-MM-dd HH:mm");

LocalDateTime dateTime = LocalDateTime.parse(localDateTimeString, formatter);

return dateTime;

}

}

1.13 –Create the TestSimpleSpringIOC class in package first

package com.rollingstone.springframework.basic.ioc.contructor.injection.first;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

import org.springframework.beans.factory.BeanFactory;

import org.springframework.beans.factory.xml.XmlBeanFactory;

import org.springframework.core.io.ClassPathResource;

import org.springframework.core.io.Resource;

import com.rollingstone.springframework.basic.ioc.real.life.examples.fourth.Dolphins;

public class TestSimpleSpringIOC {

private static final Logger logger = LoggerFactory.getLogger(TestSimpleSpringIOC.class);

public static void main(String[] args) {

Resource r=new ClassPathResource("spring-ioc-constructor-arg.xml");

BeanFactory factory=new XmlBeanFactory(r);

Investment investment =(Investment)factory.getBean("investment01");

logger.info(investment.toString());

}

}

1.14 –Create the Car class in package second

<?xml version="1.0" encoding="UTF-8"?>

<beans xmlns="http://www.springframework.org/schema/beans"

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:p="http://www.springframework.org/schema/p"

xsi:schemaLocation="http://www.springframework.org/schema/beans

http://www.springframework.org/schema/beans/spring-beans-3.0.xsd">

<bean id="dateFormat" class="java.text.SimpleDateFormat">

<constructor-arg value="yyyy-MM-dd" />

</bean>

<bean id="customer01"

class="com.rollingstone.springframework.basic.ioc.contructor.injection.Customer">

<constructor-arg value="1" type="int"></constructor-arg>

<constructor-arg value="Steven" type="String"></constructor-arg>

<constructor-arg value="Smith" type="String"></constructor-arg>

<constructor-arg value="1993-01-01" type="java.util.Date"></constructor-arg>

</bean>

<bean id="investment01"

class="com.rollingstone.springframework.basic.ioc.contructor.injection.Investment">

<constructor-arg index="0" value="1" type="java.lang.String"></constructor-arg>

<constructor-arg index="1" value="Rental Property" type="java.lang.String"></constructor-arg>

<constructor-arg index="2" value="Rental Property" type="java.lang.String"></constructor-arg>

<property name="investmentStartDate">

<ref bean="localDate01" />

</property>

<property name="invetsmentMaturityDate">

<ref bean="localDate02" />

</property>

</bean>

<bean id="localDate01"

class="com.rollingstone.springframework.basic.ioc.contructor.injection.LocalDateFactory"

factory-method="createLocalDate">

<constructor-arg value="1993-01-01" />

</bean>

<bean id="localDate02"

class="com.rollingstone.springframework.basic.ioc.contructor.injection.LocalDateFactory"

factory-method="createLocalDate">

<constructor-arg value="2013-01-01" />

</bean>

</beans>

1.15 –Create the Car class in package second

package com.rollingstone.springframework.basic.ioc.contructor.injection.collection.second;

import java.time.LocalDate;

public class Car {

private long carID;

private int carYear;

private String carModel;

private String carMake;

private String carColor;

private LocalDate registrationRenewalDate;

public long getCarID() {

return carID;

}

public void setCarID(long carID) {

this.carID = carID;

}

public int getCarYear() {

return carYear;

}

public void setCarYear(int carYear) {

this.carYear = carYear;

}

public String getCarModel() {

return carModel;

}

public void setCarModel(String carModel) {

this.carModel = carModel;

}

public String getCarMake() {

return carMake;

}

public void setCarMake(String carMake) {

this.carMake = carMake;

}

public String getCarColor() {

return carColor;

}

public void setCarColor(String carColor) {

this.carColor = carColor;

}

@Override

public String toString() {

return "Car [carID=" + carID + ", carYear=" + carYear + ", carModel=" + carModel + ", carMake=" + carMake

+ ", carColor=" + carColor + "]";

}

public Car(long carID, int carYear, String carModel, String carMake, String carColor,

LocalDate registrationRenewalDate) {

super();

this.carID = carID;

this.carYear = carYear;

this.carModel = carModel;

this.carMake = carMake;

this.carColor = carColor;

this.registrationRenewalDate = registrationRenewalDate;

}

public LocalDate getRegistrationRenewalDate() {

return registrationRenewalDate;

}

public void setRegistrationRenewalDate(LocalDate registrationRenewalDate) {

this.registrationRenewalDate = registrationRenewalDate;

}

public Car(long carID, int carYear, String carModel, String carMake, String carColor) {

super();

this.carID = carID;

this.carYear = carYear;

this.carModel = carModel;

this.carMake = carMake;

this.carColor = carColor;

}

}

1.16 –Create the CarOwner class in package second

package com.rollingstone.springframework.basic.ioc.contructor.injection.collection.second;

import java.time.LocalDate;

import java.util.Date;

import java.util.Map;

public class CarOwner {

private long ownerId;

private String firstName;

private String lastName;

private LocalDate dob;

private Map<String,String> cars;

public long getOwnerId() {

return ownerId;

}

public void setOwnerId(long ownerId) {

this.ownerId = ownerId;

}

public String getFirstName() {

return firstName;

}

public void setFirstName(String firstName) {

this.firstName = firstName;

}

public String getLastName() {

return lastName;

}

public void setLastName(String lastName) {

this.lastName = lastName;

}

public CarOwner() {

super();

}

@Override

public String toString() {

return "CarOwner [ownerId=" + ownerId + ", firstName=" + firstName + ", lastName=" + lastName + ", dob=" + dob

+ ", cars=" + cars + "]";

}

public LocalDate getDob() {

return dob;

}

public void setDob(LocalDate dob) {

this.dob = dob;

}

public Map<String, String> getCars() {

return cars;

}

public void setCars(Map<String, String> cars) {

this.cars = cars;

}

public CarOwner(long ownerId, String firstName, String lastName, LocalDate dob, Map<String, String> cars) {

super();

this.ownerId = ownerId;

this.firstName = firstName;

this.lastName = lastName;

this.dob = dob;

this.cars = cars;

}

}

1.17 –Create the CarOwnerWithMapObjects class in package second

package com.rollingstone.springframework.basic.ioc.contructor.injection.collection.second;

import java.time.LocalDate;

import java.util.Date;

import java.util.Map;

public class CarOwnerWithMapObjects {

private long ownerId;

private String firstName;

private String lastName;

private LocalDate dob;

private Map<String,Car> cars;

public long getOwnerId() {

return ownerId;

}

public void setOwnerId(long ownerId) {

this.ownerId = ownerId;

}

public String getFirstName() {

return firstName;

}

public void setFirstName(String firstName) {

this.firstName = firstName;

}

public String getLastName() {

return lastName;

}

public void setLastName(String lastName) {

this.lastName = lastName;

}

public LocalDate getDob() {

return dob;

}

public void setDob(LocalDate dob) {

this.dob = dob;

}

public CarOwnerWithMapObjects(long ownerId, String firstName, String lastName, LocalDate dob) {

super();

this.ownerId = ownerId;

this.firstName = firstName;

this.lastName = lastName;

this.dob = dob;

}

public CarOwnerWithMapObjects() {

super();

}

@Override

public String toString() {

return "CarOwner [ownerId=" + ownerId + ", firstName=" + firstName + ", lastName=" + lastName + ", dob=" + dob

+ ", cars=" + cars + "]";

}

public CarOwnerWithMapObjects(long ownerId, String firstName, String lastName, LocalDate dob,

Map<String, Car> cars) {

super();

this.ownerId = ownerId;

this.firstName = firstName;

this.lastName = lastName;

this.dob = dob;

this.cars = cars;

}

}

1.18 –Create the CartItem class in package second

package com.rollingstone.springframework.basic.ioc.contructor.injection.collection.second;

import java.time.LocalDate;

public class CartItem {

private long itemID;

private String cartItemName;

private LocalDate mfgDate;

private LocalDate expiryDate;

public long getItemID() {

return itemID;

}

public void setItemID(long itemID) {

this.itemID = itemID;

}

public String getCartItemName() {

return cartItemName;

}

public void setCartItemName(String cartItemName) {

this.cartItemName = cartItemName;

}

public LocalDate getMfgDate() {

return mfgDate;

}

public void setMfgDate(LocalDate mfgDate) {

this.mfgDate = mfgDate;

}

public LocalDate getExpiryDate() {

return expiryDate;

}

public void setExpiryDate(LocalDate expiryDate) {

this.expiryDate = expiryDate;

}

public CartItem(long itemID, String cartItemName, LocalDate mfgDate, LocalDate expiryDate) {

super();

this.itemID = itemID;

this.cartItemName = cartItemName;

this.mfgDate = mfgDate;

this.expiryDate = expiryDate;

}

public CartItem() {

super();

}

@Override

public String toString() {

return "CartItem [itemID=" + itemID + ", cartItemName=" + cartItemName + ", mfgDate=" + mfgDate

+ ", expiryDate=" + expiryDate + "]";

}

}

1.19 –Create the ShoppingCart class in package second

package com.rollingstone.springframework.basic.ioc.contructor.injection.collection.second;

import java.time.LocalDate;

import java.util.ArrayList;

import java.util.List;

public class ShoppingCart {

private long shoppingCartId;

private LocalDate cartDate;

private List<String> cartItems = new ArrayList<String>();

public long getShoppingCartId() {

return shoppingCartId;

}

public void setShoppingCartId(long shoppingCartId) {

this.shoppingCartId = shoppingCartId;

}

public LocalDate getCartDate() {

return cartDate;

}

public void setCartDate(LocalDate cartDate) {

this.cartDate = cartDate;

}

public List<String> getCartItems() {

return cartItems;

}

public void setCartItems(List<String> cartItems) {

this.cartItems = cartItems;

}

public ShoppingCart(long shoppingCartId, LocalDate cartDate, List<String> cartItems) {

super();

this.shoppingCartId = shoppingCartId;

this.cartDate = cartDate;

this.cartItems = cartItems;

}

public ShoppingCart(long shoppingCartId) {

super();

this.shoppingCartId = shoppingCartId;

}

public ShoppingCart() {

super();

}

@Override

public String toString() {

return "ShoppingCart [shoppingCartId=" + shoppingCartId + ", cartDate=" + cartDate + ", cartItems=" + cartItems

+ "]";

}

}

1.20 –Create the ShoppingCartWithItemObjects class in package second

package com.rollingstone.springframework.basic.ioc.contructor.injection.collection.second;

import java.time.LocalDate;

import java.util.ArrayList;

import java.util.List;

public class ShoppingCartWithItemObjects {

private long shoppingCartId;

private LocalDate cartDate;

private List<CartItem> cartItems = new ArrayList<CartItem>();

public long getShoppingCartId() {

return shoppingCartId;

}

public void setShoppingCartId(long shoppingCartId) {

this.shoppingCartId = shoppingCartId;

}

public LocalDate getCartDate() {

return cartDate;

}

public void setCartDate(LocalDate cartDate) {

this.cartDate = cartDate;

}

public List<CartItem> getCartItems() {

return cartItems;

}

public void setCartItems(List<CartItem> cartItems) {

this.cartItems = cartItems;

}

public ShoppingCartWithItemObjects(long shoppingCartId, LocalDate cartDate, List<CartItem> cartItems) {

super();

this.shoppingCartId = shoppingCartId;

this.cartDate = cartDate;

this.cartItems = cartItems;

}

public ShoppingCartWithItemObjects(long shoppingCartId) {

super();

this.shoppingCartId = shoppingCartId;

}

public ShoppingCartWithItemObjects() {

super();

}

@Override

public String toString() {

return "ShoppingCart [shoppingCartId=" + shoppingCartId + ", cartDate=" + cartDate + ", cartItems=" + cartItems

+ "]";

}

}

1.21 –Create the TestSimpleSpringIOC class in package second

package com.rollingstone.springframework.basic.ioc.contructor.injection.collection.second;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

import org.springframework.beans.factory.BeanFactory;

import org.springframework.beans.factory.xml.XmlBeanFactory;

import org.springframework.core.io.ClassPathResource;

import org.springframework.core.io.Resource;

import com.rollingstone.springframework.basic.ioc.real.life.examples.fourth.Dolphins;

public class TestSimpleSpringIOC {

private static final Logger logger = LoggerFactory.getLogger(TestSimpleSpringIOC.class);

public static void main(String[] args) {

Resource r=new ClassPathResource("applicationContext-constructor-arg-collection-list.xml");

BeanFactory factory=new XmlBeanFactory(r);

ShoppingCart cartOfStrings =(ShoppingCart)factory.getBean("cartOfStrings");

logger.info(cartOfStrings.toString());

ShoppingCartWithItemObjects cartOfObjects =(ShoppingCartWithItemObjects)factory.getBean("cartOfObjects");

logger.info(cartOfObjects.toString());

}

}

1.22 –Create the TestSpringIOCMap class in package second

package com.rollingstone.springframework.basic.ioc.contructor.injection.collection.second;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

import org.springframework.beans.factory.BeanFactory;

import org.springframework.beans.factory.xml.XmlBeanFactory;

import org.springframework.core.io.ClassPathResource;

import org.springframework.core.io.Resource;

import com.rollingstone.springframework.basic.ioc.real.life.examples.fourth.Dolphins;

public class TestSpringIOCMap {

private static final Logger logger = LoggerFactory.getLogger(TestSpringIOCMap.class);

public static void main(String[] args) {

Resource r=new ClassPathResource("applicationContext-constructor-arg-collection-map.xml");

BeanFactory factory=new XmlBeanFactory(r);

CarOwner carOwner =(CarOwner)factory.getBean("ownerCarMapOfStrings");

logger.info(carOwner.toString());

CarOwnerWithMapObjects ownerCarMapOfObjects =(CarOwnerWithMapObjects)factory.getBean("ownerCarMapOfObjects");

logger.info(ownerCarMapOfObjects.toString());

}

}

1.23 –Create the applicationContext-constructor-arg-collection-list.xml in the resources folder

<?xml version="1.0" encoding="UTF-8"?>

<beans xmlns="http://www.springframework.org/schema/beans"

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:aop="http://www.springframework.org/schema/aop"

xsi:schemaLocation="http://www.springframework.org/schema/beans

http://www.springframework.org/schema/beans/spring-beans.xsd

http://www.springframework.org/schema/aop

http://www.springframework.org/schema/aop/spring-aop.xsd">

<bean id="localDate01"

class="com.rollingstone.springframework.basic.ioc.contructor.injection.LocalDateFactory"

factory-method="createLocalDate">

<constructor-arg value="1975-01-14" />

</bean>

<bean id="mfgDate"

class="com.rollingstone.springframework.basic.ioc.contructor.injection.LocalDateFactory"

factory-method="createLocalDate">

<constructor-arg value="2017-03-24" />

</bean>

<bean id="expDate"

class="com.rollingstone.springframework.basic.ioc.contructor.injection.LocalDateFactory"

factory-method="createLocalDate">

<constructor-arg value="2017-06-24" />

</bean>

<bean id="cartOfStrings" class="com.rollingstone.springframework.basic.ioc.contructor.injection.collection.ShoppingCart">

<constructor-arg value="01"></constructor-arg>

<constructor-arg>

<ref bean="localDate01"/>

</constructor-arg>

<constructor-arg>

<list>

<value>Milk</value>

<value>Potatoe</value>

<value>Pizza</value>

<value>Cookies</value>

<value>Ice Cream</value>

</list>

</constructor-arg>

</bean>

<bean id="cartOfObjects" class="com.rollingstone.springframework.basic.ioc.contructor.injection.collection.ShoppingCartWithItemObjects">

<constructor-arg value="01"></constructor-arg>

<constructor-arg>

<ref bean="localDate01"/>

</constructor-arg>

<constructor-arg>

<list>

<ref bean="milk" />

<ref bean="potatoe" />

<ref bean="pizza" />

<ref bean="cookies" />

<ref bean="icecream" />

</list>

</constructor-arg>

</bean>

<bean id="milk" class="com.rollingstone.springframework.basic.ioc.contructor.injection.collection.CartItem">

<constructor-arg value="01"></constructor-arg>

<constructor-arg value="Milk"></constructor-arg>

<constructor-arg index="2">

<ref bean="mfgDate"/>

</constructor-arg>

<constructor-arg index="3">

<ref bean="expDate"/>

</constructor-arg>

</bean>

<bean id="potatoe" class="com.rollingstone.springframework.basic.ioc.contructor.injection.collection.CartItem">

<constructor-arg value="02"></constructor-arg>

<constructor-arg value="Potatoe"></constructor-arg>

<constructor-arg index="2">

<ref bean="mfgDate"/>

</constructor-arg>

<constructor-arg index="3">

<ref bean="expDate"/>

</constructor-arg>

</bean>

<bean id="pizza" class="com.rollingstone.springframework.basic.ioc.contructor.injection.collection.CartItem">

<constructor-arg value="03"></constructor-arg>

<constructor-arg value="Pizza"></constructor-arg>

<constructor-arg index="2">

<ref bean="mfgDate"/>

</constructor-arg>

<constructor-arg index="3">

<ref bean="expDate"/>

</constructor-arg>

</bean>

<bean id="cookies" class="com.rollingstone.springframework.basic.ioc.contructor.injection.collection.CartItem">

<constructor-arg value="04"></constructor-arg>

<constructor-arg value="Cookies"></constructor-arg>

<constructor-arg index="2">

<ref bean="mfgDate"/>

</constructor-arg>

<constructor-arg index="3">

<ref bean="expDate"/>

</constructor-arg>

</bean>

<bean id="icecream" class="com.rollingstone.springframework.basic.ioc.contructor.injection.collection.CartItem">

<constructor-arg value="05"></constructor-arg>

<constructor-arg value="Ice Cream"></constructor-arg>

<constructor-arg index="2">

<ref bean="mfgDate"/>

</constructor-arg>

<constructor-arg index="3">

<ref bean="expDate"/>

</constructor-arg>

</bean>

</beans>

1.24 –Create the applicationContext-constructor-arg-collection-map.xml in the resources folder

<?xml version="1.0" encoding="UTF-8"?>

<beans xmlns="http://www.springframework.org/schema/beans"

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:aop="http://www.springframework.org/schema/aop"

xsi:schemaLocation="http://www.springframework.org/schema/beans

http://www.springframework.org/schema/beans/spring-beans.xsd

http://www.springframework.org/schema/aop

http://www.springframework.org/schema/aop/spring-aop.xsd">

<bean id="localDate01"

class="com.rollingstone.springframework.basic.ioc.contructor.injection.LocalDateFactory"

factory-method="createLocalDate">

<constructor-arg value="1975-01-14" />

</bean>

<bean id="regnRenewalDate"

class="com.rollingstone.springframework.basic.ioc.contructor.injection.LocalDateFactory"

factory-method="createLocalDate">

<constructor-arg value="2017-03-24" />

</bean>

<bean id="ownerCarMapOfStrings" class="com.rollingstone.springframework.basic.ioc.contructor.injection.collection.CarOwner">

<constructor-arg index="0" value="01"></constructor-arg>

<constructor-arg index="1" value="Steven"></constructor-arg>

<constructor-arg index="2" value="Smith"></constructor-arg>

<constructor-arg index="3">

<ref bean="localDate01"/>

</constructor-arg>

<constructor-arg index="4">

<map>

<entry key="primaryCar" value="Toyota Prius"></entry>

<entry key="secondaryCar" value="Toyota Highlander"></entry>

<entry key="LeisureCar" value="BMWX5"></entry>

</map>

</constructor-arg>

</bean>

<bean id="ownerCarMapOfObjects" class="com.rollingstone.springframework.basic.ioc.contructor.injection.collection.CarOwnerWithMapObjects">

<constructor-arg index="0" value="01"></constructor-arg>

<constructor-arg index="1" value="Ashley"></constructor-arg>

<constructor-arg index="2" value="Bentley"></constructor-arg>

<constructor-arg index="3">

<ref bean="localDate01"/>

</constructor-arg>

<constructor-arg index="4">

<map>

<entry key="primaryCar" value-ref="toyotaprius"></entry>

<entry key="secondaryCar" value-ref="toyotahighander"></entry>

<entry key="LeisureCar" value-ref="bmwX5"></entry>

</map>

</constructor-arg>

</bean>

<bean id="toyotaprius" class="com.rollingstone.springframework.basic.ioc.contructor.injection.collection.Car">

<constructor-arg index="0" value="01"></constructor-arg>

<constructor-arg index="1" value="2014"></constructor-arg>

<constructor-arg index="2" value="Toyota"></constructor-arg>

<constructor-arg index="3" value="Prius"></constructor-arg>

<constructor-arg index="4" value="White"></constructor-arg>

<constructor-arg index="5">

<ref bean="regnRenewalDate"/>

</constructor-arg>

</bean>

<bean id="toyotahighander" class="com.rollingstone.springframework.basic.ioc.contructor.injection.collection.Car">

<constructor-arg index="0" value="01"></constructor-arg>

<constructor-arg index="1" value="2014"></constructor-arg>

<constructor-arg index="2" value="Toyota"></constructor-arg>

<constructor-arg index="3" value="HighLander"></constructor-arg>

<constructor-arg index="4" value="Gold"></constructor-arg>

<constructor-arg index="5">

<ref bean="regnRenewalDate"/>

</constructor-arg>

</bean>

<bean id="bmwX5" class="com.rollingstone.springframework.basic.ioc.contructor.injection.collection.Car">

<constructor-arg index="0" value="01"></constructor-arg>

<constructor-arg index="1" value="2014"></constructor-arg>

<constructor-arg index="2" value="BMW"></constructor-arg>

<constructor-arg index="3" value="X5"></constructor-arg>

<constructor-arg index="4" value="White"></constructor-arg>

<constructor-arg index="5">

<ref bean="regnRenewalDate"/>

</constructor-arg>

</bean>

</beans>

1.25 –Create the Address class in the Third package

package com.rollingstone.springframework.basic.ioc.setter.injection.third;

public class Address {

private long addressID;

private String streetAddress;

private String city;

private String state;

private String zipCode;

public long getAddressID() {

return addressID;

}

public void setAddressID(long addressID) {

this.addressID = addressID;

}

public String getStreetAddress() {

return streetAddress;

}

public void setStreetAddress(String streetAddress) {

this.streetAddress = streetAddress;

}

public String getCity() {

return city;

}

public void setCity(String city) {

this.city = city;

}

public String getState() {

return state;

}

public void setState(String state) {

this.state = state;

}

public String getZipCode() {

return zipCode;

}

public void setZipCode(String zipCode) {

this.zipCode = zipCode;

}

public Address(long addressID, String streetAddress, String city, String state, String zipCode) {

super();

this.addressID = addressID;

this.streetAddress = streetAddress;

this.city = city;

this.state = state;

this.zipCode = zipCode;

}

public Address() {

super();

}

@Override

public String toString() {

return "Address [addressID=" + addressID + ", streetAddress=" + streetAddress + ", city=" + city + ", state="

+ state + ", zipCode=" + zipCode + "]";

}

}

1.26 –Create the Customer class in the package Third

package com.rollingstone.springframework.basic.ioc.setter.injection.third;

import java.time.LocalDate;

import java.util.Date;

public class Customer {

private long customerId;

private String firstName;

private String lastName;

private LocalDate dob;

public long getCustomerId() {

return customerId;

}

public void setCustomerId(long customerId) {

this.customerId = customerId;

}

public String getFirstName() {

return firstName;

}

public void setFirstName(String firstName) {

this.firstName = firstName;

}

public String getLastName() {

return lastName;

}

public void setLastName(String lastName) {

this.lastName = lastName;

}

public LocalDate getDob() {

return dob;

}

public void setDob(LocalDate dob) {

this.dob = dob;

}

public Customer(long customerId, String firstName, String lastName, LocalDate dob) {

super();

this.customerId = customerId;

this.firstName = firstName;

this.lastName = lastName;

this.dob = dob;

}

public Customer() {

super();

}

@Override

public String toString() {

return "Customer [customerId=" + customerId + ", firstName=" + firstName + ", lastName=" + lastName + ", dob="

+ dob + "]";

}

}

1.27 –Create the CustomerWithAddress in the package Third

package com.rollingstone.springframework.basic.ioc.setter.injection.third;

import java.time.LocalDate;

import java.util.ArrayList;

import java.util.List;

public class CustomerWithAddress {

private long customerId;

private String firstName;

private String lastName;

private LocalDate dob;

private Address address;

private List<String> phoneNumbers = new ArrayList<String>();

private List<Education> degrees = new ArrayList<Education>();

public long getCustomerId() {

return customerId;

}

public void setCustomerId(long customerId) {

this.customerId = customerId;

}

public String getFirstName() {

return firstName;

}

public void setFirstName(String firstName) {

this.firstName = firstName;

}

public String getLastName() {

return lastName;

}

public void setLastName(String lastName) {

this.lastName = lastName;

}

public LocalDate getDob() {

return dob;

}

public void setDob(LocalDate dob) {

this.dob = dob;

}

public Address getAddress() {

return address;

}

public void setAddress(Address address) {

this.address = address;

}

public List<String> getPhoneNumbers() {

return phoneNumbers;

}

public void setPhoneNumbers(List<String> phoneNumbers) {

this.phoneNumbers = phoneNumbers;

}

//TODO Commend the getter and setter for degrees

public List<Education> getDegrees() {

return degrees;

}

public void setDegrees(List<Education> degrees) {

this.degrees = degrees;

}

public CustomerWithAddress(long customerId, String firstName, String lastName, LocalDate dob) {

super();

this.customerId = customerId;

this.firstName = firstName;

this.lastName = lastName;

this.dob = dob;

}

public CustomerWithAddress() {

super();

}

@Override

public String toString() {

return "CustomerWithAddress [customerId=" + customerId + ", firstName=" + firstName + ", lastName=" + lastName

+ ", dob=" + dob + ", address=" + address + ", phoneNumbers=" + phoneNumbers + ", degrees=" + degrees

+ "]";

}

}

1.28 –Create the Education class in the package Third

package com.rollingstone.springframework.basic.ioc.setter.injection.third;

import java.time.LocalDate;

public class Education {

private long educationID;

private String degreeName;

private String degreeDescription;

private LocalDate started;

private LocalDate completed;

private boolean hasReceivedDegree;

private String univeersity;

private float gpa;

public long getEducationID() {

return educationID;

}

public void setEducationID(long educationID) {

this.educationID = educationID;

}

public String getDegreeName() {

return degreeName;

}

public void setDegreeName(String degreeName) {

this.degreeName = degreeName;

}

public String getDegreeDescription() {

return degreeDescription;

}

public void setDegreeDescription(String degreeDescription) {

this.degreeDescription = degreeDescription;

}

public LocalDate getStarted() {

return started;

}

public void setStarted(LocalDate started) {

this.started = started;

}

public LocalDate getCompleted() {

return completed;

}

public void setCompleted(LocalDate completed) {

this.completed = completed;

}

public boolean isHasReceivedDegree() {

return hasReceivedDegree;

}

public void setHasReceivedDegree(boolean hasReceivedDegree) {

this.hasReceivedDegree = hasReceivedDegree;

}

public String getUniveersity() {

return univeersity;

}

public void setUniveersity(String univeersity) {

this.univeersity = univeersity;

}

public float getGpa() {

return gpa;

}

public void setGpa(float gpa) {

this.gpa = gpa;

}

public Education(long educationID, String degreeName, String degreeDescription, LocalDate started,

LocalDate completed, boolean hasReceivedDegree, String univeersity, float gpa) {

super();

this.educationID = educationID;

this.degreeName = degreeName;

this.degreeDescription = degreeDescription;

this.started = started;

this.completed = completed;

this.hasReceivedDegree = hasReceivedDegree;

this.univeersity = univeersity;

this.gpa = gpa;

}

public Education() {

super();

}

@Override

public String toString() {

return "Education [educationID=" + educationID + ", degreeName=" + degreeName + ", degreeDescription="

+ degreeDescription + ", started=" + started + ", completed=" + completed + ", hasReceivedDegree="

+ hasReceivedDegree + ", univeersity=" + univeersity + ", gpa=" + gpa + "]";

}

}

1.29 –Create the TestSetterInjection in the package Third

package com.rollingstone.springframework.basic.ioc.setter.injection.third;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

import org.springframework.beans.factory.BeanFactory;

import org.springframework.beans.factory.xml.XmlBeanFactory;

import org.springframework.core.io.ClassPathResource;

import org.springframework.core.io.Resource;

import com.rollingstone.springframework.aop.example.fifth.RunAirportOperation;

public class TestSetterInjection {

private static final Logger logger = LoggerFactory.getLogger(TestSetterInjection.class);

public static void main(String[] args) {

Resource r=new ClassPathResource("applicationContext-setter-injection.xml");

BeanFactory factory=new XmlBeanFactory(r);

Customer customer =(Customer)factory.getBean("customer");

logger.info("Customer Infromation :"+customer.toString());

CustomerWithAddress customerWithAddress =(CustomerWithAddress)factory.getBean("customerWithAddress");

logger.info("Customer With Address Infromation :"+customerWithAddress.toString());

}

}

1.30 –Create the DI-application-context-real-life.xml in the resources folder

<?xml version="1.0" encoding="UTF-8"?>

<beans xmlns="http://www.springframework.org/schema/beans"

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:p="http://www.springframework.org/schema/p"

xsi:schemaLocation="http://www.springframework.org/schema/beans

http://www.springframework.org/schema/beans/spring-beans-3.0.xsd">

<bean id="dateOfBirth"

class="com.rollingstone.springframework.basic.ioc.contructor.injection.LocalDateFactory"

factory-method="createLocalDate">

<constructor-arg value="2017-03-24" />

</bean>

<bean id="bsStarted"

class="com.rollingstone.springframework.basic.ioc.contructor.injection.LocalDateFactory"

factory-method="createLocalDate">

<constructor-arg value="2012-05-01" />

</bean>

<bean id="bsCompleted"

class="com.rollingstone.springframework.basic.ioc.contructor.injection.LocalDateFactory"

factory-method="createLocalDate">

<constructor-arg value="2014-07-24" />

</bean>

<bean id="msStarted"

class="com.rollingstone.springframework.basic.ioc.contructor.injection.LocalDateFactory"

factory-method="createLocalDate">

<constructor-arg value="2014-08-01" />

</bean>

<bean id="msCompleted"

class="com.rollingstone.springframework.basic.ioc.contructor.injection.LocalDateFactory"

factory-method="createLocalDate">

<constructor-arg value="2015-10-11" />

</bean>

<bean id="address01"

class="com.rollingstone.springframework.basic.ioc.setter.injection.Address">

<property name="addressID" value="1"></property>

<property name="streetAddress" value="10 InfinteLoop"></property>

<property name="city" value="Palo Alto"></property>

<property name="state" value="CA"></property>

<property name="zipCode" value="94567"></property>

</bean>

<bean id="customer"

class="com.rollingstone.springframework.basic.ioc.setter.injection.Customer">

<property name="customerId">

<value>1</value>

</property>

<property name="firstName">

<value>Sophia</value>

</property>

<property name="lastName">

<value>Jhonson</value>

</property>

<property name="dob">

<ref bean="dateOfBirth" />

</property>

</bean>

<bean id="education01"

class="com.rollingstone.springframework.basic.ioc.setter.injection.Education">

<property name="educationID">

<value>1</value>

</property>

<property name="degreeName">

<value>Bachalors</value>

</property>

<property name="degreeDescription">

<value>Bachalor Of Science (BS)</value>

</property>

<property name="started">

<ref bean="bsStarted"/>

</property>

<property name="completed">

<ref bean="bsCompleted"/>

</property>

<property name="hasReceivedDegree">

<value>true</value>

</property>

<property name="univeersity">

<value>American University of Reinvention</value>

</property>

<property name="gpa">

<value>3.961</value>

</property>

</bean>

<bean id="education02"

class="com.rollingstone.springframework.basic.ioc.setter.injection.Education">

<property name="educationID">

<value>2</value>

</property>

<property name="degreeName">

<value>Masters</value>

</property>

<property name="degreeDescription">

<value>MAsters Of Science (MS)</value>

</property>

<property name="started">

<ref bean="msStarted"/>

</property>

<property name="completed">

<ref bean="msCompleted"/>

</property>

<property name="hasReceivedDegree">

<value>true</value>

</property>

<property name="univeersity">

<value>American University of Reinvention</value>

</property>

<property name="gpa">

<value>3.981</value>

</property>

</bean>

<bean id="customerWithAddress"

class="com.rollingstone.springframework.basic.ioc.setter.injection.CustomerWithAddress">

<property name="customerId">

<value>1</value>

</property>

<property name="firstName">

<value>Sophia</value>

</property>

<property name="lastName">

<value>Jhonson</value>

</property>

<property name="dob">

<ref bean="dateOfBirth" />

</property>

<property name="address">

<ref bean="address01" />

</property>

<property name="phoneNumbers">

<list>

<value>773-999-9999</value>

<value>312-999-9999</value>

<value>309-999-9999</value>

</list>

</property>

<property name="degrees">

<list>

<ref bean="education01"/>

<ref bean="education02"/>

</list>

</property>

</bean>

</beans>

1.31 –Create the OxygenAtom class in the package Fourth

package com.rollingstone.springframework.basic.ioc.real.life.examples.fourth;

public class OxygenAtom {

private int numElectronos;

private int numProtons;

private int numNetrons;

public OxygenAtom(){

}

public OxygenAtom(int numElectronos, int numProtons, int numNetrons) {

super();

this.numElectronos = numElectronos;

this.numProtons = numProtons;

this.numNetrons = numNetrons;

}

public int getNumElectronos() {

return numElectronos;

}

public void setNumElectronos(int numElectronos) {

this.numElectronos = numElectronos;

}

public int getNumProtons() {

return numProtons;

}

public void setNumProtons(int numProtons) {

this.numProtons = numProtons;

}

public int getNumNetrons() {

return numNetrons;

}

public void setNumNetrons(int numNetrons) {

this.numNetrons = numNetrons;

}

}

1.32 – Create the OxygenMolecule class in the package Fourth

package com.rollingstone.springframework.basic.ioc.real.life.examples.fourth;

import java.util.ArrayList;

import java.util.List;

public class OxygenMolecule {

private List<OxygenAtom> atoms = new ArrayList<OxygenAtom>();

public OxygenMolecule(List<OxygenAtom> atoms) {

super();

this.atoms = atoms;

}

public OxygenMolecule() {

super();

}

public List<OxygenAtom> getAtoms() {

return atoms;

}

public void setAtoms(List<OxygenAtom> atoms) {

this.atoms = atoms;

}

}

1.33 –Create the Atmosphere class in the package Fourth

package com.rollingstone.springframework.basic.ioc.real.life.examples.fourth;

import java.util.List;

import java.util.Queue;

import java.util.concurrent.ArrayBlockingQueue;

import java.util.concurrent.BlockingQueue;

public class Atmosphere {

BlockingQueue<OxygenMolecule> oxygenReservoir = new ArrayBlockingQueue<OxygenMolecule>(100);

public BlockingQueue<OxygenMolecule> getOxygenReservoir() {

return oxygenReservoir;

}

public void setOxygenReservoir(BlockingQueue<OxygenMolecule> oxygenReservoir) {

this.oxygenReservoir = oxygenReservoir;

}

public OxygenMolecule provideOxygen() throws InterruptedException{

return oxygenReservoir.take();

}

public void storeOxygen(OxygenMolecule o) throws InterruptedException{

oxygenReservoir.offer(o);

}

}

1.34 – Create the Nature class in the package Fourth

package com.rollingstone.springframework.basic.ioc.real.life.examples.fourth;

import java.util.ArrayList;

import java.util.List;

public class Nature {

List<String> lands = new ArrayList<String> ();

List<String> waterBodies = new ArrayList<String> ();

List<Forest> forests = new ArrayList<Forest> ();

List<Tree> trees = new ArrayList<Tree> ();

List<Animal> animals = new ArrayList<Animal> ();

Atmosphere atmosphere;

public List<String> getLands() {

return lands;

}

public void setLands(List<String> lands) {

this.lands = lands;

}

public List<String> getWaterBodies() {

return waterBodies;

}

public void setWaterBodies(List<String> waterBodies) {

this.waterBodies = waterBodies;

}

public Atmosphere getAtmosphere() {

return atmosphere;

}

public void setAtmosphere(Atmosphere atmosphere) {

this.atmosphere = atmosphere;

}

public List<Forest> getForests() {

return forests;

}

public void setForests(List<Forest> forests) {

this.forests = forests;

for (Forest forest : forests){

forest.setLivingEnvironment(this);

}

}

public List<Tree> getTrees() {

return trees;

}

public void setTrees(List<Tree> trees) {

this.trees = trees;

for (Tree tree : trees){

tree.setLivingEnvironment(this);

}

}

public List<Animal> getAnimals() {

return animals;

}

public void setAnimals(List<Animal> animals) {

this.animals = animals;

for (Animal animal : animals){

animal.setLivingEnvironment(this);

}

}

public void generateOxygen(){

for (Tree tree : trees){

tree.receiveSunLight();

}

for (Forest forest : forests){

forest.releaseOxygen();

}

}

}

1.35 – Create the Animal class in the package Fourth

package com.rollingstone.springframework.basic.ioc.real.life.examples.fourth;

import java.util.ArrayList;

import java.util.List;

public abstract class Animal {

private String name;

private String species;

private String naturalHabitat;

private boolean endengered;

private int age;

private String color;

private Nature livingEnvironment;

private List<OxygenMolecule> oxygen = new ArrayList<OxygenMolecule>();

public Animal(){

}

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

public String getSpecies() {

return species;

}

public void setSpecies(String species) {

this.species = species;

}

public String getNaturalHabitat() {

return naturalHabitat;

}

public void setNaturalHabitat(String naturalHabitat) {

this.naturalHabitat = naturalHabitat;

}

public boolean isEndengered() {

return endengered;

}

public void setEndengered(boolean endengered) {

this.endengered = endengered;

}

public int getAge() {

return age;

}

public void setAge(int age) {

this.age = age;

}

public String getColor() {

return color;

}

public Nature getLivingEnvironment() {

return livingEnvironment;

}

public void setLivingEnvironment(Nature livingEnvironment) {

this.livingEnvironment = livingEnvironment;

}

public void setColor(String color) {

this.color = color;

}

public List<OxygenMolecule> getOxygen() {

return oxygen;

}

public void setOxygen(List<OxygenMolecule> oxygen) {

this.oxygen = oxygen;

}

public abstract void breatheIn(OxygenMolecule oxygenMolecule) throws InterruptedException;

public abstract void breatheOut();

public abstract void breathe() throws InterruptedException;

public abstract void eat();

public abstract void communicate();

}

1.36 – Create the Tiger class in the package Fourth

package com.rollingstone.springframework.basic.ioc.real.life.examples.fourth;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

public class Tiger extends Animal {

private static final Logger logger = LoggerFactory.getLogger(Tiger.class);

public void breathe() throws InterruptedException {

logger.info("Draw Oxygen molecules from Air");

breatheIn(getLivingEnvironment().getAtmosphere().getOxygenReservoir().take());

breatheOut();

}

@Override

public void eat() {

logger.info("Find a deer!");

}

@Override

public void communicate() {

logger.info("Roar!!!!");

}

@Override

public void breatheIn(OxygenMolecule oxygenMolecule) {

logger.info("Use Oxygen molecules in cells to generate energy");

}

@Override

public void breatheOut() {

logger.info("Tiger Release CO2!");

}

}

1.37 – Create the Dolphins class in the package Fourth

package com.rollingstone.springframework.basic.ioc.real.life.examples.fourth;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

public class Dolphins extends Animal{

private static final Logger logger = LoggerFactory.getLogger(Dolphins.class);

private Nature livingEnvironment;

public Nature getLivingEnvironment() {

return livingEnvironment;

}

public void setLivingEnvironment(Nature livingEnvironment) {

this.livingEnvironment = livingEnvironment;

}

public static Logger getLogger() {

return logger;

}

@Override

public void eat() {

logger.info("Find fish!");

}

@Override

public void communicate() {

logger.info("Make Dolphin sounds!!");

}

@Override

public void breatheIn(OxygenMolecule oxygenMolecule) throws InterruptedException {

logger.info("Dolpins Draw Oxygen molecules from Water");

logger.info("Use Oxygen molecules in cells to generate energy");

}

@Override

public void breatheOut() {

logger.info("Tiger Release CO2 into water!");

}

@Override

public void breathe() throws InterruptedException {

logger.info("Draw Oxygen molecules from Air");

breatheIn(getLivingEnvironment().getAtmosphere().getOxygenReservoir().take());

breatheOut();

}

}

1.38 – Create the Tree class in the package Fourth

package com.rollingstone.springframework.basic.ioc.real.life.examples.fourth;

import java.util.ArrayList;

import java.util.List;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

public class Tree {

private static final Logger logger = LoggerFactory.getLogger(Tree.class);

private String name;

private String height;

private String age;

private String habitat;

private String type;

private Nature livingEnvironment;

public void receiveSunLight(){

logger.info("Thank God!");

prepareFood();

}

public void prepareFood(){

logger.info("drawSunLight");

logger.info("drawWater");

logger.info("conductPhotoSynthesis");

logger.info("releaseOxygen");

drawSunLight();

drawWater();

conductPhotoSynthesis();

releaseOxygen();

}

public void drawSunLight(){

logger.info("Draw Sunlight");

}

public void drawWater(){

logger.info("Draw Water");

}

public void conductPhotoSynthesis(){

logger.info("conductPhotoSynthesis using Chlrophill");

}

public void releaseOxygen(){

logger.info("releaseOxygen into environment");

List<OxygenAtom> atoms = new ArrayList<OxygenAtom>();

OxygenAtom firstOxygenAtom = new OxygenAtom(8,8,8);

OxygenAtom secondOxygenAtom = new OxygenAtom(8,8,8);

atoms.add(firstOxygenAtom);

atoms.add(secondOxygenAtom);

OxygenMolecule oxygenMolecule = new OxygenMolecule(atoms);

livingEnvironment.getAtmosphere().getOxygenReservoir().offer(oxygenMolecule);

}

public void breathe() throws InterruptedException{

logger.info("Draw Oxygen");

OxygenMolecule oxygenMolecule = getLivingEnvironment().getAtmosphere().getOxygenReservoir().take();

logger.info("Supply Oxygen to cells");

}

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

public String getHeight() {

return height;

}

public void setHeight(String height) {

this.height = height;

}

public String getAge() {

return age;

}

public void setAge(String age) {

this.age = age;

}

public String getHabitat() {

return habitat;

}

public void setHabitat(String habitat) {

this.habitat = habitat;

}

public String getType() {

return type;

}

public void setType(String type) {

this.type = type;

}

public Nature getLivingEnvironment() {

return livingEnvironment;

}

public void setLivingEnvironment(Nature livingEnvironment) {

this.livingEnvironment = livingEnvironment;

}

public static Logger getLogger() {

return logger;

}

}

1.39 – Create the Forest class in the package Fourth

package com.rollingstone.springframework.basic.ioc.real.life.examples.fourth;

import java.util.ArrayList;

import java.util.List;

public class Forest {

private List<Tree> trees = new ArrayList<Tree>();

private Nature livingEnvironment;

public List<Tree> getTrees() {

return trees;

}

public void setTrees(List<Tree> trees) {

this.trees = trees;

}

public Forest(List<Tree> trees) {

super();

this.trees = trees;

}

public Forest() {

super();

}

public void releaseOxygen(){

for (Tree tree : trees){

tree.receiveSunLight();

}

}

public Nature getLivingEnvironment() {

return livingEnvironment;

}

public void setLivingEnvironment(Nature livingEnvironment) {

this.livingEnvironment = livingEnvironment;

for (Tree tree : trees){

tree.setLivingEnvironment(livingEnvironment);

}

}

}

1.40 – Create the NaturalEnvironment class in the package Fourth

package com.rollingstone.springframework.basic.ioc.real.life.examples.fourth;

import org.springframework.context.ApplicationContext;

import org.springframework.context.support.ClassPathXmlApplicationContext;

public class NaturalEnvironment {

Nature nature;

public static void main(String[] args){

ApplicationContext context = new ClassPathXmlApplicationContext("DI-application-context-real-life.xml");

Nature nature = (Nature) context.getBean("nature");

nature.generateOxygen();

nature.generateOxygen();

nature.generateOxygen();

for (Animal animal: nature.getAnimals()){

try {

animal.breathe();

} catch (InterruptedException e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

}

}

}

1.41 – Create the DI-application-context-real-life.xml in the resources folder

<?xml version="1.0" encoding="UTF-8"?>

<beans xmlns="http://www.springframework.org/schema/beans"

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:util="http://www.springframework.org/schema/util"

xmlns:tx="http://www.springframework.org/schema/tx" xmlns:aop="http://www.springframework.org/schema/aop"

xsi:schemaLocation="http://www.springframework.org/schema/beans http://www.springframework.org/schema/beans/spring-beans-2.5.xsd

http://www.springframework.org/schema/util http://www.springframework.org/schema/util/spring-util-2.5.xsd

http://www.springframework.org/schema/tx http://www.springframework.org/schema/tx/spring-tx-2.5.xsd

http://www.springframework.org/schema/aop http://www.springframework.org/schema/aop/spring-aop-2.5.xsd">

<!-- <util:constant id="X" static-field="java.lang.Integer.MAX\_VALUE"/>

<util:list id="Y" list-class="java.util.ArrayList"> <value>value1</value>

<ref bean="X"/> </util:list> -->

<bean id="atmosphere"

class="com.rollingstone.springframework.basic.real.life.examples.Atmosphere">

</bean>

<bean id="nature"

class="com.rollingstone.springframework.basic.real.life.examples.Nature">

<property name="atmosphere">

<ref bean="atmosphere" />

</property>

<property name="forests">

<list>

<ref bean="forest01" />

<ref bean="forest02" />

<ref bean="forest03" />

<ref bean="forest04" />

</list>

</property>

<property name="trees">

<list>

<ref bean="tree17" />

<ref bean="tree18" />

<ref bean="tree19" />

<ref bean="tree20" />

</list>

</property>

<property name="lands">

<list>

<value>North America</value>

<value>Asia</value>

<value>Africa</value>

<value>South America</value>

<value>Europe</value>

<value>Antarktica</value>

<value>Australia</value>

</list>

</property>

<property name="waterBodies">

<list>

<value>Pacific Ocean</value>

<value>Indian Ocean</value>

<value>Atlantic Ocean</value>

<value>Southern Ocean</value>

<value>Arctic Ocean</value>

</list>

</property>

<property name="animals">

<list>

<ref bean="tiger01" />

<ref bean="tiger01" />

<ref bean="tiger01" />

<ref bean="dolphin01" />

<ref bean="dolphin02" />

<ref bean="dolphin03" />

</list>

</property>

</bean>

<bean id="forest01"

class="com.rollingstone.springframework.basic.real.life.examples.Forest">

<property name="trees">

<list>

<ref bean="tree01" />

<ref bean="tree02" />

<ref bean="tree03" />

<ref bean="tree04" />

</list>

</property>

</bean>

<bean id="forest02"

class="com.rollingstone.springframework.basic.real.life.examples.Forest">

<property name="trees">

<list>

<ref bean="tree05" />

<ref bean="tree06" />

<ref bean="tree07" />

<ref bean="tree08" />

</list>

</property>

</bean>

<bean id="forest03"

class="com.rollingstone.springframework.basic.real.life.examples.Forest">

<property name="trees">

<list>

<ref bean="tree09" />

<ref bean="tree10" />

<ref bean="tree11" />

<ref bean="tree12" />

</list>

</property>

</bean>

<bean id="forest04"

class="com.rollingstone.springframework.basic.real.life.examples.Forest">

<property name="trees">

<list>

<ref bean="tree13" />

<ref bean="tree14" />

<ref bean="tree15" />

<ref bean="tree16" />

</list>

</property>

</bean>

<!-- <util:map id="Z" map-class="java.util.HashMap">

<entry key="x" value="y" />

<entry key="y">

<ref bean="X" />

</entry>

</util:map>

<util:properties id="P" location="classpath:Main.properties" />

<bean id="simple" class="SimpleBean" />

<util:property-path id="Q" path="simple.name" />

<util:set id="S" set-class="java.util.HashSet">

<value>foo</value>

<ref bean="X" />

</util:set> -->

<bean id="tiger01"

class="com.rollingstone.springframework.basic.real.life.examples.Tiger">

<property name="name" value="Royal Bengal Tiger"></property>

<property name="species" value="Carnivore"></property>

<property name="naturalHabitat" value="Mangrove Forest, Sunderbans"></property>

<property name="endengered" value="true" />

<property name="color" value="Orange and Black stripes" />

</bean>

<bean id="tiger02"

class="com.rollingstone.springframework.basic.real.life.examples.Tiger">

<property name="name" value="Royal Bengal Tiger"></property>

<property name="species" value="Carnivore"></property>

<property name="naturalHabitat" value="Mangrove Forest, Sunderbans"></property>

<property name="endengered" value="true" />

<property name="color" value="Orange and Black stripes" />

</bean>

<bean id="tiger03"

class="com.rollingstone.springframework.basic.real.life.examples.Tiger">

<property name="name" value="Royal Bengal Tiger"></property>

<property name="species" value="Carnivore"></property>

<property name="naturalHabitat" value="Mangrove Forest, Sunderbans"></property>

<property name="endengered" value="true" />

<property name="color" value="Orange and Black stripes" />

</bean>

<bean id="dolphin01"

class="com.rollingstone.springframework.basic.real.life.examples.Dolphins">

<property name="name" value="Wonderful Dolphins"></property>

<property name="species" value="Carnivore"></property>

<property name="naturalHabitat" value="Oceans and Bays"></property>

<property name="endengered" value="false" />

<property name="color" value="Black and White" />

</bean>

<bean id="dolphin02"

class="com.rollingstone.springframework.basic.real.life.examples.Dolphins">

<property name="name" value="Wonderful Dolphins"></property>

<property name="species" value="Carnivore"></property>

<property name="naturalHabitat" value="Oceans and Bays"></property>

<property name="endengered" value="false" />

<property name="color" value="Black and White" />

</bean>

<bean id="dolphin03"

class="com.rollingstone.springframework.basic.real.life.examples.Dolphins">

<property name="name" value="Wonderful Dolphins"></property>

<property name="species" value="Carnivore"></property>

<property name="naturalHabitat" value="Oceans and Bays"></property>

<property name="endengered" value="false" />

<property name="color" value="Black and White" />

</bean>

<bean id="tree01"

class="com.rollingstone.springframework.basic.real.life.examples.Tree">

<property name="name" value="Oak"></property>

<property name="height" value="10 Meters"></property>

<property name="age" value="70"></property>

<property name="habitat" value="Europe and North America" />

<property name="type" value="Tropical" />

</bean>

<bean id="tree02"

class="com.rollingstone.springframework.basic.real.life.examples.Tree">

<property name="name" value="Willow"></property>

<property name="height" value="7 Meters"></property>

<property name="age" value="70"></property>

<property name="habitat" value="Europe and North America" />

<property name="type" value="Tropical" />

</bean>

<bean id="tree03"

class="com.rollingstone.springframework.basic.real.life.examples.Tree">

<property name="name" value="Mango"></property>

<property name="height" value="5 Meters"></property>

<property name="age" value="70"></property>

<property name="habitat" value="India, Mexico, China, Latin America" />

<property name="type" value="Tropical" />

</bean>

<bean id="tree04"

class="com.rollingstone.springframework.basic.real.life.examples.Tree">

<property name="name" value="Teak"></property>

<property name="height" value="25 Meters"></property>

<property name="age" value="70"></property>

<property name="habitat" value="India, Malaysia, Indonesia" />

<property name="type" value="Tropical" />

</bean>

<bean id="tree05"

class="com.rollingstone.springframework.basic.real.life.examples.Tree">

<property name="name" value="Oak"></property>

<property name="height" value="10 Meters"></property>

<property name="age" value="70"></property>

<property name="habitat" value="Europe and North America" />

<property name="type" value="Tropical" />

</bean>

<bean id="tree06"

class="com.rollingstone.springframework.basic.real.life.examples.Tree">

<property name="name" value="Willow"></property>

<property name="height" value="7 Meters"></property>

<property name="age" value="70"></property>

<property name="habitat" value="Europe and North America" />

<property name="type" value="Tropical" />

</bean>

<bean id="tree07"

class="com.rollingstone.springframework.basic.real.life.examples.Tree">

<property name="name" value="Mango"></property>

<property name="height" value="5 Meters"></property>

<property name="age" value="70"></property>

<property name="habitat" value="India, Mexico, China, Latin America" />

<property name="type" value="Tropical" />

</bean>

<bean id="tree08"

class="com.rollingstone.springframework.basic.real.life.examples.Tree">

<property name="name" value="Teak"></property>

<property name="height" value="25 Meters"></property>

<property name="age" value="70"></property>

<property name="habitat" value="India, Malaysia, Indonesia" />

<property name="type" value="Tropical" />

</bean>

<bean id="tree09"

class="com.rollingstone.springframework.basic.real.life.examples.Tree">

<property name="name" value="Oak"></property>

<property name="height" value="10 Meters"></property>

<property name="age" value="70"></property>

<property name="habitat" value="Europe and North America" />

<property name="type" value="Tropical" />

</bean>

<bean id="tree10"

class="com.rollingstone.springframework.basic.real.life.examples.Tree">

<property name="name" value="Willow"></property>

<property name="height" value="7 Meters"></property>

<property name="age" value="70"></property>

<property name="habitat" value="Europe and North America" />

<property name="type" value="Tropical" />

</bean>

<bean id="tree11"

class="com.rollingstone.springframework.basic.real.life.examples.Tree">

<property name="name" value="Mango"></property>

<property name="height" value="5 Meters"></property>

<property name="age" value="70"></property>

<property name="habitat" value="India, Mexico, China, Latin America" />

<property name="type" value="Tropical" />

</bean>

<bean id="tree12"

class="com.rollingstone.springframework.basic.real.life.examples.Tree">

<property name="name" value="Teak"></property>

<property name="height" value="25 Meters"></property>

<property name="age" value="70"></property>

<property name="habitat" value="India, Malaysia, Indonesia" />

<property name="type" value="Tropical" />

</bean>

<bean id="tree13"

class="com.rollingstone.springframework.basic.real.life.examples.Tree">

<property name="name" value="Oak"></property>

<property name="height" value="10 Meters"></property>

<property name="age" value="70"></property>

<property name="habitat" value="Europe and North America" />

<property name="type" value="Tropical" />

</bean>

<bean id="tree14"

class="com.rollingstone.springframework.basic.real.life.examples.Tree">

<property name="name" value="Willow"></property>

<property name="height" value="7 Meters"></property>

<property name="age" value="70"></property>

<property name="habitat" value="Europe and North America" />

<property name="type" value="Tropical" />

</bean>

<bean id="tree15"

class="com.rollingstone.springframework.basic.real.life.examples.Tree">

<property name="name" value="Mango"></property>

<property name="height" value="5 Meters"></property>

<property name="age" value="70"></property>

<property name="habitat" value="India, Mexico, China, Latin America" />

<property name="type" value="Tropical" />

</bean>

<bean id="tree16"

class="com.rollingstone.springframework.basic.real.life.examples.Tree">

<property name="name" value="Teak"></property>

<property name="height" value="25 Meters"></property>

<property name="age" value="70"></property>

<property name="habitat" value="India, Malaysia, Indonesia" />

<property name="type" value="Tropical" />

</bean>

<bean id="tree17"

class="com.rollingstone.springframework.basic.real.life.examples.Tree">

<property name="name" value="Oak"></property>

<property name="height" value="10 Meters"></property>

<property name="age" value="70"></property>

<property name="habitat" value="Europe and North America" />

<property name="type" value="Tropical" />

</bean>

<bean id="tree18"

class="com.rollingstone.springframework.basic.real.life.examples.Tree">

<property name="name" value="Willow"></property>

<property name="height" value="7 Meters"></property>

<property name="age" value="70"></property>

<property name="habitat" value="Europe and North America" />

<property name="type" value="Tropical" />

</bean>

<bean id="tree19"

class="com.rollingstone.springframework.basic.real.life.examples.Tree">

<property name="name" value="Mango"></property>

<property name="height" value="5 Meters"></property>

<property name="age" value="70"></property>

<property name="habitat" value="India, Mexico, China, Latin America" />

<property name="type" value="Tropical" />

</bean>

<bean id="tree20"

class="com.rollingstone.springframework.basic.real.life.examples.Tree">

<property name="name" value="Teak"></property>

<property name="height" value="25 Meters"></property>

<property name="age" value="70"></property>

<property name="habitat" value="India, Malaysia, Indonesia" />

<property name="type" value="Tropical" />

</bean>

</beans>

1.42 – Create the Airline class in the package Fifth

package com.rollingstone.springframework.aop.example.fifth;

import java.time.LocalDate;

public class Airline {

private long airlineID;

private String airlineCode;

private String airlineName;

private LocalDate startedOperation;

private String centralHub;

public long getAirlineID() {

return airlineID;

}

public void setAirlineID(long airlineID) {

this.airlineID = airlineID;

}

public String getAirlineCode() {

return airlineCode;

}

public void setAirlineCode(String airlineCode) {

this.airlineCode = airlineCode;

}

public String getAirlineName() {

return airlineName;

}

public void setAirlineName(String airlineName) {

this.airlineName = airlineName;

}

public LocalDate getStartedOperation() {

return startedOperation;

}

public void setStartedOperation(LocalDate startedOperation) {

this.startedOperation = startedOperation;

}

public String getCentralHub() {

return centralHub;

}

public void setCentralHub(String centralHub) {

this.centralHub = centralHub;

}

public Airline(long airlineID, String airlineCode, String airlineName, LocalDate startedOperation,

String centralHub) {

super();

this.airlineID = airlineID;

this.airlineCode = airlineCode;

this.airlineName = airlineName;

this.startedOperation = startedOperation;

this.centralHub = centralHub;

}

public Airline() {

super();

}

}

1.43 – Create the NaturalEnvironment class in the package Fifth

package com.rollingstone.springframework.aop.example.fifth;

import java.time.LocalDate;

public class Airplane {

private long planeID;

private String planeType;

private int numFlights;

private LocalDate commissionDate;

public long getPlaneID() {

return planeID;

}

public void setPlaneID(long planeID) {

this.planeID = planeID;

}

public String getPlaneType() {

return planeType;

}

public void setPlaneType(String planeType) {

this.planeType = planeType;

}

public int getNumFlights() {

return numFlights;

}

public void setNumFlights(int numFlights) {

this.numFlights = numFlights;

}

public LocalDate getCommissionDate() {

return commissionDate;

}

public void setCommissionDate(LocalDate commissionDate) {

this.commissionDate = commissionDate;

}

public Airplane(long planeID, int numFlights, LocalDate commissionDate) {

super();

this.planeID = planeID;

this.numFlights = numFlights;

this.commissionDate = commissionDate;

}

public Airplane() {

super();

}

public Airplane(long planeID, String planeType, int numFlights, LocalDate commissionDate) {

super();

this.planeID = planeID;

this.planeType = planeType;

this.numFlights = numFlights;

this.commissionDate = commissionDate;

}

@Override

public String toString() {

return "Airplane [planeID=" + planeID + ", planeType=" + planeType + ", numFlights=" + numFlights

+ ", commissionDate=" + commissionDate + "]";

}

}

1.44 – Create the Airport class in the package Fifth

package com.rollingstone.springframework.aop.example.fifth;

public class Airport {

private long airportID;

private String airportCode;

private String airportName;

private String country;

private String city;

private String address;

public long getAirportID() {

return airportID;

}

public void setAirportID(long airportID) {

this.airportID = airportID;

}

public String getAirportCode() {

return airportCode;

}

public void setAirportCode(String airportCode) {

this.airportCode = airportCode;

}

public String getAirportName() {

return airportName;

}

public void setAirportName(String airportName) {

this.airportName = airportName;

}

public String getCountry() {

return country;

}

public void setCountry(String country) {

this.country = country;

}

public String getCity() {

return city;

}

public void setCity(String city) {

this.city = city;

}

public String getAddress() {

return address;

}

public void setAddress(String address) {

this.address = address;

}

public Airport(long airportID, String airportCode, String airportName, String country, String city,

String address) {

super();

this.airportID = airportID;

this.airportCode = airportCode;

this.airportName = airportName;

this.country = country;

this.city = city;

this.address = address;

}

public Airport() {

super();

}

@Override

public String toString() {

return "Airport [airportID=" + airportID + ", airportCode=" + airportCode + ", airportName=" + airportName

+ ", country=" + country + ", city=" + city + ", address=" + address + "]";

}

}

1.45 – Create the Flight class in the package Fifth

package com.rollingstone.springframework.aop.example.fifth;

import java.time.LocalDateTime;

import java.util.ArrayList;

import java.util.List;

public class Flight {

private long flightID;

private String flightCode;

private Airport fromAirport;

private Airport destinationAirport;

private LocalDateTime departureTime;

private LocalDateTime arrivalTime;

Airplane airplane;

private List<Pilot> pilots = new ArrayList<Pilot>();

private List<FlightAttendant> flightAttendants = new ArrayList<FlightAttendant>();

public long getFlightID() {

return flightID;

}

public void setFlightID(long flightID) {

this.flightID = flightID;

}

public String getFlightCode() {

return flightCode;

}

public void setFlightCode(String flightCode) {

this.flightCode = flightCode;

}

public Airport getFromAirport() {

return fromAirport;

}

public void setFromAirport(Airport fromAirport) {

this.fromAirport = fromAirport;

}

public Airport getDestinationAirport() {

return destinationAirport;

}

public void setDestinationAirport(Airport destinationAirport) {

this.destinationAirport = destinationAirport;

}

public LocalDateTime getDepartureTime() {

return departureTime;

}

public void setDepartureTime(LocalDateTime departureTime) {

this.departureTime = departureTime;

}

public LocalDateTime getArrivalTime() {

return arrivalTime;

}

public void setArrivalTime(LocalDateTime arrivalTime) {

this.arrivalTime = arrivalTime;

}

public List<Pilot> getPilots() {

return pilots;

}

public void setPilots(List<Pilot> pilots) {

this.pilots = pilots;

}

public Flight(long flightID, String flightCode, Airport fromAirport, Airport destinationAirport,

LocalDateTime departureTime, LocalDateTime arrivalTime, Airplane airplane, List<Pilot> pilots,

List<FlightAttendant> flightAttendants) {

super();

this.flightID = flightID;

this.flightCode = flightCode;

this.fromAirport = fromAirport;

this.destinationAirport = destinationAirport;

this.departureTime = departureTime;

this.arrivalTime = arrivalTime;

this.airplane = airplane;

this.pilots = pilots;

this.flightAttendants = flightAttendants;

}

@Override

public String toString() {

return "Flight [flightID=" + flightID + ", flightCode=" + flightCode + ", fromAirport=" + fromAirport

+ ", destinationAirport=" + destinationAirport + ", departureTime=" + departureTime + ", arrivalTime="

+ arrivalTime + ", pilots=" + pilots + ", flightAttendants=" + flightAttendants + "]";

}

public Flight() {

super();

}

}

1.46 – Create the FlightAttendant class in the package Fifth

package com.rollingstone.springframework.aop.example.fifth;

import java.time.LocalDate;

public class FlightAttendant {

private long flightAttendantID;

private String flightAttendantCode;

private String firstName;

private String lastName;

private String middleName;

private String socialSecurityNumber;

private LocalDate dateOfBirth;

private int age;

private String sex;

public long getFlightAttendantID() {

return flightAttendantID;

}

public void setFlightAttendantID(long flightAttendantID) {

this.flightAttendantID = flightAttendantID;

}

public String getFlightAttendantCode() {

return flightAttendantCode;

}

public void setFlightAttendantCode(String flightAttendantCode) {

this.flightAttendantCode = flightAttendantCode;

}

public String getFirstName() {

return firstName;

}

public void setFirstName(String firstName) {

this.firstName = firstName;

}

public String getLastName() {

return lastName;

}

public void setLastName(String lastName) {

this.lastName = lastName;

}

public String getMiddleName() {

return middleName;

}

public void setMiddleName(String middleName) {

this.middleName = middleName;

}

public String getSocialSecurityNumber() {

return socialSecurityNumber;

}

public void setSocialSecurityNumber(String socialSecurityNumber) {

this.socialSecurityNumber = socialSecurityNumber;

}

public LocalDate getDateOfBirth() {

return dateOfBirth;

}

public void setDateOfBirth(LocalDate dateOfBirth) {

this.dateOfBirth = dateOfBirth;

}

public int getAge() {

return age;

}

public void setAge(int age) {

this.age = age;

}

public String getSex() {

return sex;

}

public void setSex(String sex) {

this.sex = sex;

}

public FlightAttendant(long flightAttendantID, String flightAttendantCode, String firstName, String lastName,

String middleName, String socialSecurityNumber, LocalDate dateOfBirth, int age, String sex) {

super();

this.flightAttendantID = flightAttendantID;

this.flightAttendantCode = flightAttendantCode;

this.firstName = firstName;

this.lastName = lastName;

this.middleName = middleName;

this.socialSecurityNumber = socialSecurityNumber;

this.dateOfBirth = dateOfBirth;

this.age = age;

this.sex = sex;

}

public FlightAttendant() {

super();

}

@Override

public String toString() {

return "FlightAttendant [flightAttendantID=" + flightAttendantID + ", flightAttendantCode="

+ flightAttendantCode + ", firstName=" + firstName + ", lastName=" + lastName + ", middleName="

+ middleName + ", socialSecurityNumber=" + socialSecurityNumber + ", dateOfBirth=" + dateOfBirth

+ ", age=" + age + ", sex=" + sex + "]";

}

}

1.47 – Create the Pilot class in the package Fifth

package com.rollingstone.springframework.aop.example.fifth;

import java.time.LocalDate;

public class Pilot {

private long pilotID;

private String firstName;

private String lastName;

private String middleName;

private String socialSecurityNumber;

private LocalDate dateOfBirth;

private int age;

private String sex;

private int flyingHours;

public long getPilotID() {

return pilotID;

}

public void setPilotID(long pilotID) {

this.pilotID = pilotID;

}

public String getFirstName() {

return firstName;

}

public void setFirstName(String firstName) {

this.firstName = firstName;

}

public String getLastName() {

return lastName;

}

public void setLastName(String lastName) {

this.lastName = lastName;

}

public String getMiddleName() {

return middleName;

}

public void setMiddleName(String middleName) {

this.middleName = middleName;

}

public String getSocialSecurityNumber() {

return socialSecurityNumber;

}

public void setSocialSecurityNumber(String socialSecurityNumber) {

this.socialSecurityNumber = socialSecurityNumber;

}

public LocalDate getDateOfBirth() {

return dateOfBirth;

}

public void setDateOfBirth(LocalDate dateOfBirth) {

this.dateOfBirth = dateOfBirth;

}

public int getAge() {

return age;

}

public void setAge(int age) {

this.age = age;

}

public String getSex() {

return sex;

}

public void setSex(String sex) {

this.sex = sex;

}

public int getFlyingHours() {

return flyingHours;

}

public void setFlyingHours(int flyingHours) {

this.flyingHours = flyingHours;

}

public Pilot(long pilotID, String firstName, String lastName, String middleName, String socialSecurityNumber,

LocalDate dateOfBirth, int age,

String sex, int flyingHours) {

super();

this.pilotID = pilotID;

this.firstName = firstName;

this.lastName = lastName;

this.middleName = middleName;

this.socialSecurityNumber = socialSecurityNumber;

this.dateOfBirth = dateOfBirth;

this.age = age;

this.sex = sex;

this.flyingHours = flyingHours;

}

public Pilot() {

super();

}

@Override

public String toString() {

return "Pilot [pilotID=" + pilotID + ", firstName=" + firstName + ", lastName=" + lastName + ", middleName="

+ middleName + ", socialSecurityNumber=" + socialSecurityNumber + ", dateOfBirth=" + dateOfBirth

+ ", age=" + age + ", sex=" + sex + ", flyingHours=" + flyingHours + "]";

}

}

1.48 – Create the SecurityOfficer class in the package Fifth

package com.rollingstone.springframework.aop.example.fifth;

import java.time.LocalDate;

public class SecurityOfficer {

private long officeID;

private String officercode;

private String firstName;

private String lastName;

private String middleName;

private String socialSecurityNumber;

private LocalDate dateOfBirth;

Airport homeAirport;

private int age;

private String sex;

public long getOfficeID() {

return officeID;

}

public void setOfficeID(long officeID) {

this.officeID = officeID;

}

public String getOfficercode() {

return officercode;

}

public void setOfficercode(String officercode) {

this.officercode = officercode;

}

public String getFirstName() {

return firstName;

}

public void setFirstName(String firstName) {

this.firstName = firstName;

}

public String getLastName() {

return lastName;

}

public void setLastName(String lastName) {

this.lastName = lastName;

}

public String getMiddleName() {

return middleName;

}

public void setMiddleName(String middleName) {

this.middleName = middleName;

}

public String getSocialSecurityNumber() {

return socialSecurityNumber;

}

public void setSocialSecurityNumber(String socialSecurityNumber) {

this.socialSecurityNumber = socialSecurityNumber;

}

public LocalDate getDateOfBirth() {

return dateOfBirth;

}

public void setDateOfBirth(LocalDate dateOfBirth) {

this.dateOfBirth = dateOfBirth;

}

public int getAge() {

return age;

}

public void setAge(int age) {

this.age = age;

}

public String getSex() {

return sex;

}

public void setSex(String sex) {

this.sex = sex;

}

public SecurityOfficer() {

super();

}

public Airport getHomeAirport() {

return homeAirport;

}

public void setHomeAirport(Airport homeAirport) {

this.homeAirport = homeAirport;

}

public SecurityOfficer(long officeID, String officercode, String firstName, String lastName, String middleName,

String socialSecurityNumber, LocalDate dateOfBirth, Airport homeAirport, int age, String sex) {

super();

this.officeID = officeID;

this.officercode = officercode;

this.firstName = firstName;

this.lastName = lastName;

this.middleName = middleName;

this.socialSecurityNumber = socialSecurityNumber;

this.dateOfBirth = dateOfBirth;

this.homeAirport = homeAirport;

this.age = age;

this.sex = sex;

}

@Override

public String toString() {

return "SecurityOfficer [officeID=" + officeID + ", officercode=" + officercode + ", firstName=" + firstName

+ ", lastName=" + lastName + ", middleName=" + middleName + ", socialSecurityNumber="

+ socialSecurityNumber + ", dateOfBirth=" + dateOfBirth + ", homeAirport=" + homeAirport + ", age="

+ age + ", sex=" + sex + "]";

}

}

1.49 – Create the Traveller class in the package Fifth

package com.rollingstone.springframework.aop.example.fifth;

import java.time.LocalDate;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

import com.rollingstone.springframework.basic.ioc.contructor.injection.first.TestSimpleSpringIOC;

public class Traveller {

private static final Logger logger = LoggerFactory.getLogger(Traveller.class);

private long travellerID;

private String firstName;

private String lastName;

private String middleName;

private String socialSecurityNumber;

private LocalDate dateOfBirth;

Airport travellingFrom;

Airport travellingTo;

private int age;

private String sex;

private String foodChoice;

public long getTravellerID() {

return travellerID;

}

public void setTravellerID(long travellerID) {

this.travellerID = travellerID;

}

public String getFirstName() {

return firstName;

}

public void setFirstName(String firstName) {

this.firstName = firstName;

}

public String getLastName() {

return lastName;

}

public void setLastName(String lastName) {

this.lastName = lastName;

}

public String getMiddleName() {

return middleName;

}

public void setMiddleName(String middleName) {

this.middleName = middleName;

}

public String getSocialSecurityNumber() {

return socialSecurityNumber;

}

public void setSocialSecurityNumber(String socialSecurityNumber) {

this.socialSecurityNumber = socialSecurityNumber;

}

public LocalDate getDateOfBirth() {

return dateOfBirth;

}

public void setDateOfBirth(LocalDate dateOfBirth) {

this.dateOfBirth = dateOfBirth;

}

public Airport getTravellingFrom() {

return travellingFrom;

}

public void setTravellingFrom(Airport travellingFrom) {

this.travellingFrom = travellingFrom;

}

public Airport getTravellingTo() {

return travellingTo;

}

public void setTravellingTo(Airport travellingTo) {

this.travellingTo = travellingTo;

}

public int getAge() {

return age;

}

public void setAge(int age) {

this.age = age;

}

public String getSex() {

return sex;

}

public void setSex(String sex) {

this.sex = sex;

}

public String getFoodChoice() {

return foodChoice;

}

public void setFoodChoice(String foodChoice) {

this.foodChoice = foodChoice;

}

public Traveller(long travellerID, String firstName, String lastName, String middleName,

String socialSecurityNumber, LocalDate dateOfBirth, Airport travellingFrom, Airport travellingTo,

int age, String sex, String foodChoice) {

super();

this.travellerID = travellerID;

this.firstName = firstName;

this.lastName = lastName;

this.middleName = middleName;

this.socialSecurityNumber = socialSecurityNumber;

this.dateOfBirth = dateOfBirth;

this.travellingFrom = travellingFrom;

this.travellingTo = travellingTo;

this.age = age;

this.sex = sex;

this.foodChoice = foodChoice;

}

public Traveller() {

super();

}

@Override

public String toString() {

return "Traveller [travellerID=" + travellerID + ", firstName=" + firstName + ", lastName=" + lastName

+ ", middleName=" + middleName + ", socialSecurityNumber=" + socialSecurityNumber + ", dateOfBirth="

+ dateOfBirth + ", travellingFrom=" + travellingFrom + ", travellingTo=" + travellingTo

+ ", age=" + age + ", sex=" + sex + ", foodChoice=" + foodChoice

+ "]";

}

}

1.50 – Create the AirportOperations class in the package Fifth

package com.rollingstone.springframework.aop.example.fifth;

public interface AirportOperations {

public void checkin(Traveller t) throws AirportOperationxException;

public void getBoradingPass(Traveller t) throws AirportOperationxException;

public void checkInLuggage(Traveller t) throws AirportOperationxException;

public void goForSecurityCheck(Traveller t) throws AirportOperationxException;

public void deplane(Traveller t) throws AirportOperationxException;

public void collectHandLuggage(Traveller t) throws AirportOperationxException;

public void collecCheckInLuggage(Traveller t) throws AirportOperationxException;

public void goThroughImmigrationAndCustomsCheck(Traveller t) throws AirportOperationxException;

public void reprintBoardingPAss(Traveller t) throws AirportOperationxException;

}

1.51 – Create the AirportOperationsImpl class in the package Fifth

package com.rollingstone.springframework.aop.example.fifth;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

public class AirportOperationsImpl implements AirportOperations {

private static final Logger logger = LoggerFactory.getLogger(AirportOperationsImpl.class);

public void checkin(Traveller t) {

logger.info("Checking via online or at the Airport counter " + t.getFirstName() + " " + t.getLastName() + " ID : "+ t.getTravellerID());

}

public void getBoradingPass(Traveller t) {

logger.info("Receive boarding pass and keep it with passports "+ t.getFirstName() + " " + t.getLastName() + " ID : "+ t.getTravellerID());

}

public void checkInLuggage(Traveller t) {

logger.info("Provide Suitcases for weight checking and if ok check them in. " + t.getFirstName() + " " + t.getLastName() + " ID : "+ t.getTravellerID());

}

public void goForSecurityCheck(Traveller t) {

logger.info("Stand in Queue for the security check. " + t.getFirstName() + " " + t.getLastName() + " ID : "+ t.getTravellerID());

}

public void deplane(Traveller t) {

logger.info("Stand in Queue to get off from the plane. " + t.getFirstName() + " " + t.getLastName() + " ID : "+ t.getTravellerID());

}

public void collectHandLuggage(Traveller t) {

logger.info("Take hand luggage with you. " + t.getFirstName() + " " + t.getLastName() + " ID : "+ t.getTravellerID());

}

public void collecCheckInLuggage(Traveller t) {

logger.info("Find luggage carusel and collect checked in luggage. " + t.getFirstName() + " " + t.getLastName() + " ID : "+ t.getTravellerID());

}

public void goThroughImmigrationAndCustomsCheck(Traveller t) throws AirportOperationxException {

logger.info("PResent passport and other documents for immigration check. " + t.getFirstName() + " " + t.getLastName() + " ID : "+ t.getTravellerID());

if (t.getTravellerID() == 15){

throw new AirportOperationxException("Expired Visa");

}

}

public void reprintBoardingPAss(Traveller t) {

logger.info("Enter ticket information to reprint." + t.getFirstName());

}

}

1.52 – Create the AirportOperationxException class in the package Fifth

package com.rollingstone.springframework.aop.example.fifth;

public class AirportOperationxException extends Exception {

public AirportOperationxException(){

super();

}

public AirportOperationxException(String message){

super(message);

}

}

1.53 – Create the AirportOperationCommonTracker class in the package Fifth

package com.rollingstone.springframework.aop.example.fifth;

import org.aspectj.lang.JoinPoint;

import org.aspectj.lang.annotation.AfterReturning;

import org.aspectj.lang.annotation.AfterThrowing;

import org.aspectj.lang.annotation.Aspect;

import org.aspectj.lang.annotation.Before;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

@Aspect

public class AirportOperationCommonTracker {

private static final Logger logger = LoggerFactory.getLogger(AirportOperationCommonTracker.class);

//@Before("execution(\* com.rollingstone.springframework.aop.example.Traveller.goForSecurityCheck(..))")

@Before("execution(\* com.rollingstone.springframework.aop.example.AirportOperations.goForSecurityCheck(..))")

public void performSecurityCheckForTraveller(JoinPoint joinPoint){

logger.info("AOP!!!!!!!!!!!! :- Check Passenger for security clearance!");

}

// @Before("execution(\* com.rollingstone.springframework.aop.example.Traveller.checkInLuggage(..))")

@Before("execution(\* com.rollingstone.springframework.aop.example.AirportOperations.checkInLuggage(..))")

public void performSecurityCheckforBaggage(JoinPoint joinPoint){

logger.info("AOP!!!!!!!!!!!! :- Check Passenger's luggage for security clearance!");

}

// @Before("execution(\* com.rollingstone.springframework.aop.example.Traveller.goForSecurityCheck(..))")

@Before("execution(\* com.rollingstone.springframework.aop.example.AirportOperations.goForSecurityCheck(..))")

public void performSecurityCheckforHandBaggage(JoinPoint joinPoint){

logger.info("AOP!!!!!!!!!!!! :- Check Passenger's hand luggage for security clearance!");

}

@AfterReturning(

pointcut = "execution(\* com.rollingstone.springframework.aop.example.AirportOperations.goThroughImmigrationAndCustomsCheck(..))",

returning= "result")

public void performImmigrationCheck(JoinPoint jp,Object result){

logger.info("Airport Function : " + jp.getSignature().getName());

logger.info("AOP!!!!!!!!!!!! :- Check Passenger's Passport and Visa and / or Permanent Resident Card!");

if (result != null){

logger.info("Welcome to the country :"+result.toString());

}

}

@AfterReturning(

pointcut = "execution(\* com.rollingstone.springframework.aop.example.AirportOperations.goThroughImmigrationAndCustomsCheck(..))",

returning= "result")

public void performCustomsCheckforBaggage(JoinPoint jp,Object result){

logger.info("Airport Function : " + jp.getSignature().getName());

logger.info("AOP!!!!!!!!!!!! :- Check Passenger's Luggage for customs clearance!");

if (result != null){

logger.info("Your luggage is all clear :"+result.toString());

}

}

@AfterThrowing(

pointcut = "execution(\* com.rollingstone.springframework.aop.example.AirportOperations.AirportOperationxException(..))",

throwing= "error")

public void logAfterThrowing(JoinPoint joinPoint, Throwable error) {

System.out.println("logAfterThrowing() is running!");

System.out.println("Airport Operation fone wrong : " + joinPoint.getSignature().getName());

System.out.println("Exception : " + error);

System.out.println("\*\*\*\*\*\*");

}

/\*@Before("execution(\* com.rollingstone.springframework.aop.example.AirportOperationsImpl.checkin(..))")

public void assistedCheckin(){

}\*/

/\*@Before("execution(\* com.rollingstone.springframework.aop.example.AirportOperationsImpl.reprintBoardingPAss(..))")

public void reprintBoardingPass(){

}\*/

public void refuelPlanes(){

}

public void protectAirport(){

}

public void displayFlightInformation(){

}

}

1.54 – Create the RunAirportOperation class in the package Fifth

package com.rollingstone.springframework.aop.example.fifth;

import java.util.List;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

import org.springframework.context.ApplicationContext;

import org.springframework.context.support.ClassPathXmlApplicationContext;

public class RunAirportOperation {

/\* @Autowired

AirportOperationCommonTracker airportServices;\*/

private static final Logger logger = LoggerFactory.getLogger(RunAirportOperation.class);

public static void main(String[] args) throws AirportOperationxException{

ApplicationContext context = new ClassPathXmlApplicationContext("applicationContext-aop.xml");

Traveller traveller01 = (Traveller) context.getBean("traveller01");

AirportOperations airportOperations = (AirportOperations) context.getBean("airportOperations");

try {

airportOperations.checkin(traveller01);

} catch (AirportOperationxException e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

try {

airportOperations.goForSecurityCheck(traveller01);

} catch (AirportOperationxException e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

airportOperations.checkInLuggage(traveller01);

airportOperations.deplane(traveller01);

airportOperations.collectHandLuggage(traveller01);

airportOperations.collecCheckInLuggage(traveller01);

airportOperations.goThroughImmigrationAndCustomsCheck(traveller01);

airportOperations.goThroughImmigrationAndCustomsCheck(traveller01);

List<Traveller> aiorport01Pasengers = (List<Traveller>) context.getBean("listOfTravellersinAireport01");

for (Traveller traveller : aiorport01Pasengers){

logger.info("========================================================================");

logger.info("========================================================================");

logger.info("========================================================================");

airportOperations.checkin(traveller);

airportOperations.goForSecurityCheck(traveller);

airportOperations.checkInLuggage(traveller);

airportOperations.deplane(traveller);

airportOperations.collectHandLuggage(traveller);

airportOperations.collecCheckInLuggage(traveller);

airportOperations.goThroughImmigrationAndCustomsCheck(traveller);

logger.info("========================================================================");

logger.info("========================================================================");

logger.info("========================================================================");

}

aiorport01Pasengers = (List<Traveller>) context.getBean("listOfTravellersinAireport04");

for (Traveller traveller : aiorport01Pasengers){

logger.info("========================================================================");

logger.info("========================================================================");

logger.info("========================================================================");

airportOperations.checkin(traveller);

airportOperations.goForSecurityCheck(traveller);

airportOperations.checkInLuggage(traveller);

airportOperations.deplane(traveller);

airportOperations.collectHandLuggage(traveller);

airportOperations.collecCheckInLuggage(traveller);

airportOperations.goThroughImmigrationAndCustomsCheck(traveller);

logger.info("========================================================================");

logger.info("========================================================================");

logger.info("========================================================================");

}

System.out.println(traveller01);

}

}

1.55 – Create the applicationContext-aop.xml file in the resources folder

<?xml version="1.0" encoding="UTF-8"?>

<beans xmlns="http://www.springframework.org/schema/beans"

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

xmlns:util="http://www.springframework.org/schema/util"

xmlns:aop="http://www.springframework.org/schema/aop"

xsi:schemaLocation="http://www.springframework.org/schema/beans

http://www.springframework.org/schema/beans/spring-beans-3.0.xsd

http://www.springframework.org/schema/aop

http://www.springframework.org/schema/aop/spring-aop-3.0.xsd

http://www.springframework.org/schema/util

http://www.springframework.org/schema/util/spring-util-3.0.xsd">

<aop:aspectj-autoproxy />

<bean id="airportOperations"

class="com.rollingstone.springframework.aop.example.AirportOperationsImpl" />

<bean id="trackAirportOperation"

class="com.rollingstone.springframework.aop.example.AirportOperationCommonTracker"></bean>

<bean

class="org.springframework.aop.aspectj.annotation.AnnotationAwareAspectJAutoProxyCreator"></bean>

<bean id="startedOperation"

class="com.rollingstone.springframework.basic.ioc.contructor.injection.LocalDateFactory"

factory-method="createLocalDate">

<constructor-arg value="1975-01-14" />

</bean>

<bean id="commissionDate"

class="com.rollingstone.springframework.basic.ioc.contructor.injection.LocalDateFactory"

factory-method="createLocalDate">

<constructor-arg value="2009-01-01" />

</bean>

<bean id="departureTime"

class="com.rollingstone.springframework.basic.ioc.contructor.injection.LocalDateTimeFactory"

factory-method="createLocalDateTime">

<constructor-arg value="2017-03-04 11:30" />

</bean>

<bean id="arrivalTime"

class="com.rollingstone.springframework.basic.ioc.contructor.injection.LocalDateTimeFactory"

factory-method="createLocalDateTime">

<constructor-arg value="2017-04-04 11:30" />

</bean>

<bean id="dateOfBirth"

class="com.rollingstone.springframework.basic.ioc.contructor.injection.LocalDateFactory"

factory-method="createLocalDate">

<constructor-arg value="1993-01-14" />

</bean>

<bean id="flight01" class="com.rollingstone.springframework.aop.example.Flight">

<constructor-arg index="0" value="01"></constructor-arg>

<constructor-arg index="1" value="BA798"></constructor-arg>

<constructor-arg index="2">

<ref bean="airport01" />

</constructor-arg>

<constructor-arg index="3">

<ref bean="airport02" />

</constructor-arg>

<constructor-arg index="4">

<ref bean="departureTime" />

</constructor-arg>

<constructor-arg index="5">

<ref bean="arrivalTime" />

</constructor-arg>

<constructor-arg index="6">

<ref bean="airplane01" />

</constructor-arg>

<constructor-arg index="7">

<list>

<ref bean="pilot01" />

<ref bean="pilot02" />

</list>

</constructor-arg>

<constructor-arg index="8">

<list>

<ref bean="flightAttendant01" />

<ref bean="flightAttendant02" />

</list>

</constructor-arg>

</bean>

<bean id="flight02" class="com.rollingstone.springframework.aop.example.Flight">

<constructor-arg index="0" value="02"></constructor-arg>

<constructor-arg index="1" value="UA878"></constructor-arg>

<constructor-arg index="2">

<ref bean="airport02" />

</constructor-arg>

<constructor-arg index="3">

<ref bean="airport03" />

</constructor-arg>

<constructor-arg index="4">

<ref bean="departureTime" />

</constructor-arg>

<constructor-arg index="5">

<ref bean="arrivalTime" />

</constructor-arg>

<constructor-arg index="6">

<ref bean="airplane02" />

</constructor-arg>

<constructor-arg index="7">

<list>

<ref bean="pilot03" />

<ref bean="pilot04" />

</list>

</constructor-arg>

<constructor-arg index="8">

<list>

<ref bean="flightAttendant03" />

<ref bean="flightAttendant04" />

</list>

</constructor-arg>

</bean>

<bean id="flight03" class="com.rollingstone.springframework.aop.example.Flight">

<constructor-arg index="0" value="03"></constructor-arg>

<constructor-arg index="1" value="NW878"></constructor-arg>

<constructor-arg index="2">

<ref bean="airport03" />

</constructor-arg>

<constructor-arg index="3">

<ref bean="airport04" />

</constructor-arg>

<constructor-arg index="4">

<ref bean="departureTime" />

</constructor-arg>

<constructor-arg index="5">

<ref bean="arrivalTime" />

</constructor-arg>

<constructor-arg index="6">

<ref bean="airplane03" />

</constructor-arg>

<constructor-arg index="7">

<list>

<ref bean="pilot04" />

<ref bean="pilot05" />

</list>

</constructor-arg>

<constructor-arg index="8">

<list>

<ref bean="flightAttendant05" />

<ref bean="flightAttendant06" />

</list>

</constructor-arg>

</bean>

<bean id="flight04" class="com.rollingstone.springframework.aop.example.Flight">

<constructor-arg index="0" value="04"></constructor-arg>

<constructor-arg index="1" value="UA878"></constructor-arg>

<constructor-arg index="2">

<ref bean="airport04" />

</constructor-arg>

<constructor-arg index="3">

<ref bean="airport05" />

</constructor-arg>

<constructor-arg index="4">

<ref bean="departureTime" />

</constructor-arg>

<constructor-arg index="5">

<ref bean="arrivalTime" />

</constructor-arg>

<constructor-arg index="6">

<ref bean="airplane04" />

</constructor-arg>

<constructor-arg index="7">

<list>

<ref bean="pilot06" />

<ref bean="pilot07" />

</list>

</constructor-arg>

<constructor-arg index="8">

<list>

<ref bean="flightAttendant07" />

<ref bean="flightAttendant08" />

</list>

</constructor-arg>

</bean>

<bean id="airplane01" class="com.rollingstone.springframework.aop.example.Airplane">

<constructor-arg index="0" type="long">

<value>1</value>

</constructor-arg>

<constructor-arg index="1" type="java.lang.String"

value="Boeing777" />

<constructor-arg index="2" type="int">

<value>7000</value>

</constructor-arg>

<constructor-arg index="3" type="java.time.LocalDate">

<ref bean="commissionDate" />

</constructor-arg>

</bean>

<bean id="airplane02" class="com.rollingstone.springframework.aop.example.Airplane">

<constructor-arg index="0" type="long">

<value>2</value>

</constructor-arg>

<constructor-arg index="1" type="java.lang.String">

<value>Airbus A380</value>

</constructor-arg>

<constructor-arg index="2" type="int">

<value>6000</value>

</constructor-arg>

<constructor-arg index="3" type="java.time.LocalDate">

<ref bean="commissionDate" />

</constructor-arg>

</bean>

<bean id="airplane03" class="com.rollingstone.springframework.aop.example.Airplane">

<constructor-arg index="0" type="long">

<value>3</value>

</constructor-arg>

<constructor-arg index="1" type="java.lang.String">

<value>Airbus A380</value>

</constructor-arg>

<constructor-arg index="2" type="int">

<value>5000</value>

</constructor-arg>

<constructor-arg index="3">

<ref bean="commissionDate" />

</constructor-arg>

</bean>

<bean id="airplane04" class="com.rollingstone.springframework.aop.example.Airplane">

<constructor-arg index="0" type="long">

<value>4</value>

</constructor-arg>

<constructor-arg index="1" type="java.lang.String">

<value>Boeing 777</value>

</constructor-arg>

<constructor-arg index="2" type="int">

<value>3000</value>

</constructor-arg>

<constructor-arg index="3">

<ref bean="commissionDate" />

</constructor-arg>

</bean>

<bean id="airplane05" class="com.rollingstone.springframework.aop.example.Airplane">

<constructor-arg index="0" type="long">

<value>5</value>

</constructor-arg>

<constructor-arg index="1" type="java.lang.String">

<value>Boeing 777</value>

</constructor-arg>

<constructor-arg index="2" type="int">

<value>7000</value>

</constructor-arg>

<constructor-arg index="3">

<ref bean="commissionDate" />

</constructor-arg>

</bean>

<bean id="airline01" class="com.rollingstone.springframework.aop.example.Airline">

<constructor-arg index="0" value="01"></constructor-arg>

<constructor-arg index="1" value="0001"></constructor-arg>

<constructor-arg index="2" value="United Airways"></constructor-arg>

<constructor-arg index="3">

<ref bean="startedOperation" />

</constructor-arg>

<constructor-arg index="4" value="New York, NY"></constructor-arg>

</bean>

<bean id="airline02" class="com.rollingstone.springframework.aop.example.Airline">

<constructor-arg index="0" value="02"></constructor-arg>

<constructor-arg index="1" value="0002"></constructor-arg>

<constructor-arg index="2" value="American Airways"></constructor-arg>

<constructor-arg index="3">

<ref bean="startedOperation" />

</constructor-arg>

<constructor-arg index="4" value="Chicago, IL"></constructor-arg>

</bean>

<bean id="airline03" class="com.rollingstone.springframework.aop.example.Airline">

<constructor-arg index="0" value="03"></constructor-arg>

<constructor-arg index="1" value="0003"></constructor-arg>

<constructor-arg index="2" value="North West Airways"></constructor-arg>

<constructor-arg index="3">

<ref bean="startedOperation" />

</constructor-arg>

<constructor-arg index="4" value="San Francisco, CA"></constructor-arg>

</bean>

<bean id="airport01" class="com.rollingstone.springframework.aop.example.Airport">

<constructor-arg index="0" value="01"></constructor-arg>

<constructor-arg index="1" value="ORD"></constructor-arg>

<constructor-arg index="2"

value="Chicago Ohare International Airport"></constructor-arg>

<constructor-arg index="3" value="USA"></constructor-arg>

<constructor-arg index="4" value="Chicago"></constructor-arg>

<constructor-arg index="5" value="Ohare Address"></constructor-arg>

</bean>

<bean id="airport02" class="com.rollingstone.springframework.aop.example.Airport">

<constructor-arg index="0" value="02"></constructor-arg>

<constructor-arg index="1" value="JFK"></constructor-arg>

<constructor-arg index="2" value="JFK International Airport"></constructor-arg>

<constructor-arg index="3" value="USA"></constructor-arg>

<constructor-arg index="4" value="New York"></constructor-arg>

<constructor-arg index="5" value="JFK Address"></constructor-arg>

</bean>

<bean id="airport03" class="com.rollingstone.springframework.aop.example.Airport">

<constructor-arg index="0" value="03"></constructor-arg>

<constructor-arg index="1" value="LAX"></constructor-arg>

<constructor-arg index="2" value="LAX International Airport"></constructor-arg>

<constructor-arg index="3" value="USA"></constructor-arg>

<constructor-arg index="4" value="Los Angeles"></constructor-arg>

<constructor-arg index="5" value="LAX Address"></constructor-arg>

</bean>

<!-- <bean id="airport04" class="com.rollingstone.springframework.aop.example.Airport">

<constructor-arg index="0" value="04"></constructor-arg> <constructor-arg

index="1" value="DEL"></constructor-arg> <constructor-arg index="2" value="New

Delhi International Airport"></constructor-arg> <constructor-arg index="3"

value="India"></constructor-arg> <constructor-arg index="5" value="New Delhi"></constructor-arg>

<constructor-arg index="6" value="DEL Address"></constructor-arg> </bean> -->

<bean id="airport04" class="com.rollingstone.springframework.aop.example.Airport">

<constructor-arg index="0" value="04"></constructor-arg>

<constructor-arg index="1" value="DEL"></constructor-arg>

<constructor-arg index="2"

value="New Delhi International Airport"></constructor-arg>

<constructor-arg index="3" value="India"></constructor-arg>

<constructor-arg index="4" value="New Delhi"></constructor-arg>

<constructor-arg index="5" value="DEL Address"></constructor-arg>

</bean>

<bean id="airport05" class="com.rollingstone.springframework.aop.example.Airport">

<constructor-arg index="0" value="05"></constructor-arg>

<constructor-arg index="1" value="SFO"></constructor-arg>

<constructor-arg index="2"

value="San Francisco International Airport"></constructor-arg>

<constructor-arg index="3" value="USA"></constructor-arg>

<constructor-arg index="4" value="San Francisco"></constructor-arg>

<constructor-arg index="5" value="SFO Address"></constructor-arg>

</bean>

<bean id="flightAttendant01"

class="com.rollingstone.springframework.aop.example.FlightAttendant">

<constructor-arg index="0" type="long">

<value>1</value>

</constructor-arg>

<constructor-arg index="1" type="java.lang.String">

<value>00001</value>

</constructor-arg>

<constructor-arg index="2" type="java.lang.String">

<value>Ashley</value>

</constructor-arg>

<constructor-arg index="3" type="java.lang.String">

<value>Bentley</value>

</constructor-arg>

<constructor-arg index="4" type="java.lang.String">

<value>

</value>

</constructor-arg>

<constructor-arg index="5" type="java.lang.String">

<value>123-567-3456</value>

</constructor-arg>

<constructor-arg index="6" type="java.time.LocalDate">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="7" type="int">

<value>24</value>

</constructor-arg>

<constructor-arg index="8" type="java.lang.String">

<value>F</value>

</constructor-arg>

</bean>

<bean id="flightAttendant02"

class="com.rollingstone.springframework.aop.example.FlightAttendant">

<constructor-arg index="0" type="long">

<value>2</value>

</constructor-arg>

<constructor-arg index="1" type="java.lang.String">

<value>00002</value>

</constructor-arg>

<constructor-arg index="2" type="java.lang.String">

<value>Anjelina</value>

</constructor-arg>

<constructor-arg index="3" type="java.lang.String">

<value>Smith</value>

</constructor-arg>

<constructor-arg index="4" type="java.lang.String">

<value>

</value>

</constructor-arg>

<constructor-arg index="5" type="java.lang.String">

<value>321-567-3456</value>

</constructor-arg>

<constructor-arg index="6" type="java.time.LocalDate">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="7" type="int">

<value>24</value>

</constructor-arg>

<constructor-arg index="8" type="java.lang.String">

<value>F</value>

</constructor-arg>

</bean>

<bean id="flightAttendant03"

class="com.rollingstone.springframework.aop.example.FlightAttendant">

<constructor-arg index="0" type="long">

<value>3</value>

</constructor-arg>

<constructor-arg index="1" type="java.lang.String">

<value>00003</value>

</constructor-arg>

<constructor-arg index="2" type="java.lang.String">

<value>Sabrina</value>

</constructor-arg>

<constructor-arg index="3" type="java.lang.String">

<value>Orlando</value>

</constructor-arg>

<constructor-arg index="4" type="java.lang.String">

<value>

</value>

</constructor-arg>

<constructor-arg index="5" type="java.lang.String">

<value>123-567-3456</value>

</constructor-arg>

<constructor-arg index="6" type="java.time.LocalDate">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="7" type="int">

<value>24</value>

</constructor-arg>

<constructor-arg index="8" type="java.lang.String">

<value>F</value>

</constructor-arg>

</bean>

<bean id="flightAttendant04"

class="com.rollingstone.springframework.aop.example.FlightAttendant">

<constructor-arg index="0" type="long">

<value>4</value>

</constructor-arg>

<constructor-arg index="1" type="java.lang.String">

<value>00004</value>

</constructor-arg>

<constructor-arg index="2" type="java.lang.String">

<value>Lisa</value>

</constructor-arg>

<constructor-arg index="3" type="java.lang.String">

<value>Jones</value>

</constructor-arg>

<constructor-arg index="4" type="java.lang.String">

<value>

</value>

</constructor-arg>

<constructor-arg index="5" type="java.lang.String">

<value>123-567-3456</value>

</constructor-arg>

<constructor-arg index="6" type="java.time.LocalDate">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="7" type="int">

<value>24</value>

</constructor-arg>

<constructor-arg index="8" type="java.lang.String">

<value>F</value>

</constructor-arg>

</bean>

<bean id="flightAttendant05"

class="com.rollingstone.springframework.aop.example.FlightAttendant">

<constructor-arg index="0" type="long">

<value>5</value>

</constructor-arg>

<constructor-arg index="1" type="java.lang.String">

<value>00005</value>

</constructor-arg>

<constructor-arg index="2" type="java.lang.String">

<value>Salina</value>

</constructor-arg>

<constructor-arg index="3" type="java.lang.String">

<value>Jhonson</value>

</constructor-arg>

<constructor-arg index="4" type="java.lang.String">

<value>

</value>

</constructor-arg>

<constructor-arg index="5" type="java.lang.String">

<value>123-567-3456</value>

</constructor-arg>

<constructor-arg index="6" type="java.time.LocalDate">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="7" type="int">

<value>24</value>

</constructor-arg>

<constructor-arg index="8" type="java.lang.String">

<value>F</value>

</constructor-arg>

</bean>

<bean id="flightAttendant06"

class="com.rollingstone.springframework.aop.example.FlightAttendant">

<constructor-arg index="0" type="long">

<value>6</value>

</constructor-arg>

<constructor-arg index="1" type="java.lang.String">

<value>00006</value>

</constructor-arg>

<constructor-arg index="2" type="java.lang.String">

<value>Cathy</value>

</constructor-arg>

<constructor-arg index="3" type="java.lang.String">

<value>Smith</value>

</constructor-arg>

<constructor-arg index="4" type="java.lang.String">

<value>

</value>

</constructor-arg>

<constructor-arg index="5" type="java.lang.String">

<value>123-567-3456</value>

</constructor-arg>

<constructor-arg index="6" type="java.time.LocalDate">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="7" type="int">

<value>24</value>

</constructor-arg>

<constructor-arg index="8" type="java.lang.String">

<value>F</value>

</constructor-arg>

</bean>

<bean id="flightAttendant07"

class="com.rollingstone.springframework.aop.example.FlightAttendant">

<constructor-arg index="0" type="long">

<value>7</value>

</constructor-arg>

<constructor-arg index="1" type="java.lang.String">

<value>00007</value>

</constructor-arg>

<constructor-arg index="2" type="java.lang.String">

<value>Tiffany</value>

</constructor-arg>

<constructor-arg index="3" type="java.lang.String">

<value>Williams</value>

</constructor-arg>

<constructor-arg index="4" type="java.lang.String">

<value>

</value>

</constructor-arg>

<constructor-arg index="5" type="java.lang.String">

<value>123-567-3456</value>

</constructor-arg>

<constructor-arg index="6" type="java.time.LocalDate">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="7" type="int">

<value>24</value>

</constructor-arg>

<constructor-arg index="8" type="java.lang.String">

<value>F</value>

</constructor-arg>

</bean>

<bean id="flightAttendant08"

class="com.rollingstone.springframework.aop.example.FlightAttendant">

<constructor-arg index="0" type="long">

<value>8</value>

</constructor-arg>

<constructor-arg index="1" type="java.lang.String">

<value>00008</value>

</constructor-arg>

<constructor-arg index="2" type="java.lang.String">

<value>Susan</value>

</constructor-arg>

<constructor-arg index="3" type="java.lang.String">

<value>Collins</value>

</constructor-arg>

<constructor-arg index="4" type="java.lang.String">

<value>

</value>

</constructor-arg>

<constructor-arg index="5" type="java.lang.String">

<value>124-567-3456</value>

</constructor-arg>

<constructor-arg index="6" type="java.time.LocalDate">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="7" type="int">

<value>24</value>

</constructor-arg>

<constructor-arg index="8" type="java.lang.String">

<value>F</value>

</constructor-arg>

</bean>

<bean id="pilot01" class="com.rollingstone.springframework.aop.example.Pilot">

<constructor-arg index="0" value="01"></constructor-arg>

<constructor-arg index="1" value="0001"></constructor-arg>

<constructor-arg index="2" value="Scott"></constructor-arg>

<constructor-arg index="3" value="Urman"></constructor-arg>

<constructor-arg index="4" value=""></constructor-arg>

<constructor-arg index="5">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="6" type="int">

<value>24</value>

</constructor-arg>

<constructor-arg index="7" value="F"></constructor-arg>

<constructor-arg index="8" type="int">

<value>6000</value>

</constructor-arg>

</bean>

<bean id="pilot02" class="com.rollingstone.springframework.aop.example.Pilot">

<constructor-arg index="0" value="02"></constructor-arg>

<constructor-arg index="1" value="0002"></constructor-arg>

<constructor-arg index="2" value="David"></constructor-arg>

<constructor-arg index="3" value="Harrington"></constructor-arg>

<constructor-arg index="4" value=""></constructor-arg>

<constructor-arg index="5">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="6" value="24"></constructor-arg>

<constructor-arg index="7" value="M"></constructor-arg>

<constructor-arg index="8" type="int">

<value>6000</value>

</constructor-arg>

</bean>

<bean id="pilot03" class="com.rollingstone.springframework.aop.example.Pilot">

<constructor-arg index="0" value="03"></constructor-arg>

<constructor-arg index="1" value="0003"></constructor-arg>

<constructor-arg index="2" value="Soumitra"></constructor-arg>

<constructor-arg index="3" value="Chatterjee"></constructor-arg>

<constructor-arg index="4" value=""></constructor-arg>

<constructor-arg index="5">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="6" value="24"></constructor-arg>

<constructor-arg index="7" value="M"></constructor-arg>

<constructor-arg index="8" type="int">

<value>6000</value>

</constructor-arg>

</bean>

<bean id="pilot04" class="com.rollingstone.springframework.aop.example.Pilot">

<constructor-arg index="0" value="04"></constructor-arg>

<constructor-arg index="1" value="0004"></constructor-arg>

<constructor-arg index="2" value="Sophia"></constructor-arg>

<constructor-arg index="3" value="Smith"></constructor-arg>

<constructor-arg index="4" value=""></constructor-arg>

<constructor-arg index="5">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="6" value="24"></constructor-arg>

<constructor-arg index="7" value="F"></constructor-arg>

<constructor-arg index="8" type="int">

<value>6000</value>

</constructor-arg>

</bean>

<bean id="pilot05" class="com.rollingstone.springframework.aop.example.Pilot">

<constructor-arg index="0" value="05"></constructor-arg>

<constructor-arg index="1" value="0005"></constructor-arg>

<constructor-arg index="2" value="Randal"></constructor-arg>

<constructor-arg index="3" value="Jhonson"></constructor-arg>

<constructor-arg index="4" value=""></constructor-arg>

<constructor-arg index="5">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="6" value="24"></constructor-arg>

<constructor-arg index="7" value="F"></constructor-arg>

<constructor-arg index="8" type="int">

<value>6000</value>

</constructor-arg>

</bean>

<bean id="pilot06" class="com.rollingstone.springframework.aop.example.Pilot">

<constructor-arg index="0" value="06"></constructor-arg>

<constructor-arg index="1" value="0006"></constructor-arg>

<constructor-arg index="2" value="Olivia"></constructor-arg>

<constructor-arg index="3" value="Shering"></constructor-arg>

<constructor-arg index="4" value=""></constructor-arg>

<constructor-arg index="5">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="6" value="24"></constructor-arg>

<constructor-arg index="7" value="F"></constructor-arg>

<constructor-arg index="8" type="int">

<value>6000</value>

</constructor-arg>

</bean>

<bean id="pilot07" class="com.rollingstone.springframework.aop.example.Pilot">

<constructor-arg index="0" value="07"></constructor-arg>

<constructor-arg index="1" value="0007"></constructor-arg>

<constructor-arg index="2" value="Anthony"></constructor-arg>

<constructor-arg index="3" value="George"></constructor-arg>

<constructor-arg index="4" value=""></constructor-arg>

<constructor-arg index="5">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="6" value="24"></constructor-arg>

<constructor-arg index="7" value="F"></constructor-arg>

<constructor-arg index="8" type="int">

<value>6000</value>

</constructor-arg>

</bean>

<bean id="securityOfficer01"

class="com.rollingstone.springframework.aop.example.SecurityOfficer">

<constructor-arg index="0" value="01"></constructor-arg>

<constructor-arg index="1" value="0001"></constructor-arg>

<constructor-arg index="2" value="Brent"></constructor-arg>

<constructor-arg index="3" value="Diana"></constructor-arg>

<constructor-arg index="4" value=""></constructor-arg>

<constructor-arg index="5" value="111-11-1111"></constructor-arg>

<constructor-arg index="6">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="7">

<ref bean="airport01" />

</constructor-arg>

<constructor-arg index="8" value="25"></constructor-arg>

<constructor-arg index="9" value="M"></constructor-arg>

</bean>

<bean id="securityOfficer02"

class="com.rollingstone.springframework.aop.example.SecurityOfficer">

<constructor-arg index="0" value="02"></constructor-arg>

<constructor-arg index="1" value="0002"></constructor-arg>

<constructor-arg index="2" value="Patrick"></constructor-arg>

<constructor-arg index="3" value="Cummings"></constructor-arg>

<constructor-arg index="4" value=""></constructor-arg>

<constructor-arg index="5" value="222-22-2222"></constructor-arg>

<constructor-arg index="6">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="7">

<ref bean="airport01" />

</constructor-arg>

<constructor-arg index="8" value="25"></constructor-arg>

<constructor-arg index="9" value="M"></constructor-arg>

</bean>

<bean id="securityOfficer03"

class="com.rollingstone.springframework.aop.example.SecurityOfficer">

<constructor-arg index="0" value="03"></constructor-arg>

<constructor-arg index="1" value="0003"></constructor-arg>

<constructor-arg index="2" value="Mathew"></constructor-arg>

<constructor-arg index="3" value="Wade"></constructor-arg>

<constructor-arg index="4" value=""></constructor-arg>

<constructor-arg index="5" value="333-33-3333"></constructor-arg>

<constructor-arg index="6">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="7">

<ref bean="airport01" />

</constructor-arg>

<constructor-arg index="8" value="25"></constructor-arg>

<constructor-arg index="9" value="M"></constructor-arg>

</bean>

<bean id="securityOfficer04"

class="com.rollingstone.springframework.aop.example.SecurityOfficer">

<constructor-arg index="0" value="04"></constructor-arg>

<constructor-arg index="1" value="0004"></constructor-arg>

<constructor-arg index="2" value="Alex"></constructor-arg>

<constructor-arg index="3" value="Kingsley"></constructor-arg>

<constructor-arg index="4" value="Bret"></constructor-arg>

<constructor-arg index="5" value="444-44-4444"></constructor-arg>

<constructor-arg index="6">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="7">

<ref bean="airport01" />

</constructor-arg>

<constructor-arg index="8" value="25"></constructor-arg>

<constructor-arg index="9" value="M"></constructor-arg>

</bean>

<bean id="securityOfficer05"

class="com.rollingstone.springframework.aop.example.SecurityOfficer">

<constructor-arg index="0" value="01"></constructor-arg>

<constructor-arg index="1" value="0001"></constructor-arg>

<constructor-arg index="2" value="Robert"></constructor-arg>

<constructor-arg index="3" value="Paton"></constructor-arg>

<constructor-arg index="4" value=""></constructor-arg>

<constructor-arg index="5" value="555-55-5555"></constructor-arg>

<constructor-arg index="6">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="7">

<ref bean="airport02" />

</constructor-arg>

<constructor-arg index="8" value="25"></constructor-arg>

<constructor-arg index="9" value="M"></constructor-arg>

</bean>

<bean id="securityOfficer06"

class="com.rollingstone.springframework.aop.example.SecurityOfficer">

<constructor-arg index="0" value="02"></constructor-arg>

<constructor-arg index="1" value="0002"></constructor-arg>

<constructor-arg index="2" value="Jhon"></constructor-arg>

<constructor-arg index="3" value="Patton"></constructor-arg>

<constructor-arg index="4" value=""></constructor-arg>

<constructor-arg index="5" value="666-66-6666"></constructor-arg>

<constructor-arg index="6">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="7">

<ref bean="airport02" />

</constructor-arg>

<constructor-arg index="8" value="25"></constructor-arg>

<constructor-arg index="9" value="M"></constructor-arg>

</bean>

<bean id="securityOfficer07"

class="com.rollingstone.springframework.aop.example.SecurityOfficer">

<constructor-arg index="0" value="03"></constructor-arg>

<constructor-arg index="1" value="0003"></constructor-arg>

<constructor-arg index="2" value="Elezabeth"></constructor-arg>

<constructor-arg index="3" value="Scott"></constructor-arg>

<constructor-arg index="4" value=""></constructor-arg>

<constructor-arg index="5" value="777-77-7777"></constructor-arg>

<constructor-arg index="6">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="7">

<ref bean="airport02" />

</constructor-arg>

<constructor-arg index="8" value="25"></constructor-arg>

<constructor-arg index="9" value="M"></constructor-arg>

</bean>

<bean id="securityOfficer08"

class="com.rollingstone.springframework.aop.example.SecurityOfficer">

<constructor-arg index="0" value="04"></constructor-arg>

<constructor-arg index="1" value="0004"></constructor-arg>

<constructor-arg index="2" value="Karan"></constructor-arg>

<constructor-arg index="3" value="Grover"></constructor-arg>

<constructor-arg index="4" value="Singh"></constructor-arg>

<constructor-arg index="5" value="888-88-8888"></constructor-arg>

<constructor-arg index="6">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="7">

<ref bean="airport02" />

</constructor-arg>

<constructor-arg index="8" value="25"></constructor-arg>

<constructor-arg index="9" value="M"></constructor-arg>

</bean>

<bean id="securityOfficer09"

class="com.rollingstone.springframework.aop.example.SecurityOfficer">

<constructor-arg index="0" value="01"></constructor-arg>

<constructor-arg index="1" value="0001"></constructor-arg>

<constructor-arg index="2" value="Jordaya"></constructor-arg>

<constructor-arg index="3" value="Bentley"></constructor-arg>

<constructor-arg index="4" value="Maria"></constructor-arg>

<constructor-arg index="5" value="576-56-4755"></constructor-arg>

<constructor-arg index="6">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="7">

<ref bean="airport03" />

</constructor-arg>

<constructor-arg index="8" value="25"></constructor-arg>

<constructor-arg index="9" value="M"></constructor-arg>

</bean>

<bean id="securityOfficer10"

class="com.rollingstone.springframework.aop.example.SecurityOfficer">

<constructor-arg index="0" value="02"></constructor-arg>

<constructor-arg index="1" value="0002"></constructor-arg>

<constructor-arg index="2" value="Jhon"></constructor-arg>

<constructor-arg index="3" value="Smith"></constructor-arg>

<constructor-arg index="4" value=""></constructor-arg>

<constructor-arg index="5" value="999-96-9966"></constructor-arg>

<constructor-arg index="6">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="7">

<ref bean="airport03" />

</constructor-arg>

<constructor-arg index="8" value="25"></constructor-arg>

<constructor-arg index="9" value="M"></constructor-arg>

</bean>

<bean id="securityOfficer11"

class="com.rollingstone.springframework.aop.example.SecurityOfficer">

<constructor-arg index="0" value="03"></constructor-arg>

<constructor-arg index="1" value="0003"></constructor-arg>

<constructor-arg index="2" value="Elezabeth"></constructor-arg>

<constructor-arg index="3" value="Williams"></constructor-arg>

<constructor-arg index="4" value=""></constructor-arg>

<constructor-arg index="5" value="767-37-3477"></constructor-arg>

<constructor-arg index="6">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="7">

<ref bean="airport03" />

</constructor-arg>

<constructor-arg index="8" value="25"></constructor-arg>

<constructor-arg index="9" value="M"></constructor-arg>

</bean>

<bean id="securityOfficer12"

class="com.rollingstone.springframework.aop.example.SecurityOfficer">

<constructor-arg index="0" value="04"></constructor-arg>

<constructor-arg index="1" value="0004"></constructor-arg>

<constructor-arg index="2" value="Roshan"></constructor-arg>

<constructor-arg index="3" value="Fernando"></constructor-arg>

<constructor-arg index="4" value=""></constructor-arg>

<constructor-arg index="5" value="888-88-8888"></constructor-arg>

<constructor-arg index="6">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="7">

<ref bean="airport03" />

</constructor-arg>

<constructor-arg index="8" value="25"></constructor-arg>

<constructor-arg index="9" value="M"></constructor-arg>

</bean>

<bean id="securityOfficer13"

class="com.rollingstone.springframework.aop.example.SecurityOfficer">

<constructor-arg index="0" value="01"></constructor-arg>

<constructor-arg index="1" value="0001"></constructor-arg>

<constructor-arg index="2" value="Kelly"></constructor-arg>

<constructor-arg index="3" value="Kegan"></constructor-arg>

<constructor-arg index="4" value=""></constructor-arg>

<constructor-arg index="5" value="676-86-4755"></constructor-arg>

<constructor-arg index="6">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="7">

<ref bean="airport04" />

</constructor-arg>

<constructor-arg index="8" value="25"></constructor-arg>

<constructor-arg index="9" value="M"></constructor-arg>

</bean>

<bean id="securityOfficer14"

class="com.rollingstone.springframework.aop.example.SecurityOfficer">

<constructor-arg index="0" value="02"></constructor-arg>

<constructor-arg index="1" value="0002"></constructor-arg>

<constructor-arg index="2" value="Peter"></constructor-arg>

<constructor-arg index="3" value="Williams"></constructor-arg>

<constructor-arg index="4" value=""></constructor-arg>

<constructor-arg index="5" value="989-96-9966"></constructor-arg>

<constructor-arg index="6">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="7">

<ref bean="airport04" />

</constructor-arg>

<constructor-arg index="8" value="25"></constructor-arg>

<constructor-arg index="9" value="M"></constructor-arg>

</bean>

<bean id="securityOfficer15"

class="com.rollingstone.springframework.aop.example.SecurityOfficer">

<constructor-arg index="0" value="03"></constructor-arg>

<constructor-arg index="1" value="0003"></constructor-arg>

<constructor-arg index="2" value="Jesse"></constructor-arg>

<constructor-arg index="3" value="Gold"></constructor-arg>

<constructor-arg index="4" value=""></constructor-arg>

<constructor-arg index="5" value="767-57-8877"></constructor-arg>

<constructor-arg index="6">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="7">

<ref bean="airport04" />

</constructor-arg>

<constructor-arg index="8" value="25"></constructor-arg>

<constructor-arg index="9" value="M"></constructor-arg>

</bean>

<bean id="securityOfficer16"

class="com.rollingstone.springframework.aop.example.SecurityOfficer">

<constructor-arg index="0" value="04"></constructor-arg>

<constructor-arg index="1" value="0004"></constructor-arg>

<constructor-arg index="2" value="Debra"></constructor-arg>

<constructor-arg index="3" value="Terry"></constructor-arg>

<constructor-arg index="4" value=""></constructor-arg>

<constructor-arg index="5" value="378-23-4576"></constructor-arg>

<constructor-arg index="6">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="7">

<ref bean="airport05" />

</constructor-arg>

<constructor-arg index="8" value="25"></constructor-arg>

<constructor-arg index="9" value="M"></constructor-arg>

</bean>

<bean id="securityOfficer17"

class="com.rollingstone.springframework.aop.example.SecurityOfficer">

<constructor-arg index="0" value="01"></constructor-arg>

<constructor-arg index="1" value="0001"></constructor-arg>

<constructor-arg index="2" value="Glen"></constructor-arg>

<constructor-arg index="3" value="Maxwell"></constructor-arg>

<constructor-arg index="4" value=""></constructor-arg>

<constructor-arg index="5" value="876-76-4755"></constructor-arg>

<constructor-arg index="6">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="7">

<ref bean="airport05" />

</constructor-arg>

<constructor-arg index="8" value="25"></constructor-arg>

<constructor-arg index="9" value="M"></constructor-arg>

</bean>

<bean id="securityOfficer18"

class="com.rollingstone.springframework.aop.example.SecurityOfficer">

<constructor-arg index="0" value="02"></constructor-arg>

<constructor-arg index="1" value="0002"></constructor-arg>

<constructor-arg index="2" value="Nancy"></constructor-arg>

<constructor-arg index="3" value="Moore"></constructor-arg>

<constructor-arg index="4" value=""></constructor-arg>

<constructor-arg index="5" value="966-96-9966"></constructor-arg>

<constructor-arg index="6">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="7">

<ref bean="airport05" />

</constructor-arg>

<constructor-arg index="8" value="25"></constructor-arg>

<constructor-arg index="9" value="M"></constructor-arg>

</bean>

<bean id="securityOfficer19"

class="com.rollingstone.springframework.aop.example.SecurityOfficer">

<constructor-arg index="0" value="03"></constructor-arg>

<constructor-arg index="1" value="0003"></constructor-arg>

<constructor-arg index="2" value="Nicole"></constructor-arg>

<constructor-arg index="3" value="Cruz"></constructor-arg>

<constructor-arg index="4" value=""></constructor-arg>

<constructor-arg index="5" value="767-37-3477"></constructor-arg>

<constructor-arg index="6">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="7">

<ref bean="airport05" />

</constructor-arg>

<constructor-arg index="8" value="25"></constructor-arg>

<constructor-arg index="9" value="M"></constructor-arg>

</bean>

<bean id="securityOfficer20"

class="com.rollingstone.springframework.aop.example.SecurityOfficer">

<constructor-arg index="0" value="04"></constructor-arg>

<constructor-arg index="1" value="0004"></constructor-arg>

<constructor-arg index="2" value="Tom"></constructor-arg>

<constructor-arg index="3" value="Kidman"></constructor-arg>

<constructor-arg index="4" value=""></constructor-arg>

<constructor-arg index="5" value="848-48-8888"></constructor-arg>

<constructor-arg index="6">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="7">

<ref bean="airport05" />

</constructor-arg>

<constructor-arg index="8" value="25"></constructor-arg>

<constructor-arg index="9" value="M"></constructor-arg>

</bean>

<!-- Traveller Start -->

<bean id="traveller01" class="com.rollingstone.springframework.aop.example.Traveller">

<constructor-arg index="0" type="long">

<value>1</value>

</constructor-arg>

<constructor-arg index="1" type="java.lang.String">

<value>Peter</value>

</constructor-arg>

<constructor-arg index="2" type="java.lang.String">

<value>Finder</value>

</constructor-arg>

<constructor-arg index="3" type="java.lang.String">

<value>

</value>

</constructor-arg>

<constructor-arg index="4" type="java.lang.String">

<value>464-45-4543</value>

</constructor-arg>

<constructor-arg index="5" type="java.time.LocalDate">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="6">

<ref bean="airport01" />

</constructor-arg>

<constructor-arg index="7">

<ref bean="airport02" />

</constructor-arg>

<constructor-arg index="8" type="int">

<value>25</value>

</constructor-arg>

<constructor-arg index="9" type="java.lang.String">

<value>M</value>

</constructor-arg>

<constructor-arg index="10" type="java.lang.String">

<value>Non Veg</value>

</constructor-arg>

</bean>

<!-- <bean id="traveller02" class="com.rollingstone.springframework.aop.example.Traveller">

<constructor-arg index="0" value="04"></constructor-arg> <constructor-arg

index="1" value="0004"></constructor-arg> <constructor-arg index="2" value="Pavan"></constructor-arg>

<constructor-arg index="3" value="Namdeo"></constructor-arg> <constructor-arg

index="4" value=""></constructor-arg> <constructor-arg index="5" value="434-45-4543"></constructor-arg>

<constructor-arg index="6"> <ref bean="dateOfBirth" /> </constructor-arg>

<constructor-arg index="7"> <ref bean="airport01" /> </constructor-arg> <constructor-arg

index="8"> <ref bean="airport02" /> </constructor-arg> <constructor-arg index="9"

value="25"></constructor-arg> <constructor-arg index="10" value="M"></constructor-arg>

<constructor-arg index="11" value="Veg"></constructor-arg> </bean> -->

<bean id="traveller02" class="com.rollingstone.springframework.aop.example.Traveller">

<constructor-arg index="0" type="long">

<value>1</value>

</constructor-arg>

<constructor-arg index="1" type="java.lang.String">

<value>Pavan</value>

</constructor-arg>

<constructor-arg index="2" type="java.lang.String">

<value>Namdeo</value>

</constructor-arg>

<constructor-arg index="3" type="java.lang.String">

<value>

</value>

</constructor-arg>

<constructor-arg index="4" type="java.lang.String">

<value>434-45-4543</value>

</constructor-arg>

<constructor-arg index="5" type="java.time.LocalDate">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="6">

<ref bean="airport01" />

</constructor-arg>

<constructor-arg index="7">

<ref bean="airport02" />

</constructor-arg>

<constructor-arg index="8" type="int">

<value>25</value>

</constructor-arg>

<constructor-arg index="9" type="java.lang.String">

<value>M</value>

</constructor-arg>

<constructor-arg index="10" type="java.lang.String">

<value>Non Veg</value>

</constructor-arg>

</bean>

<bean id="traveller03" class="com.rollingstone.springframework.aop.example.Traveller">

<constructor-arg index="0" type="long">

<value>3</value>

</constructor-arg>

<constructor-arg index="1" type="java.lang.String">

<value>Amit</value>

</constructor-arg>

<constructor-arg index="2" type="java.lang.String">

<value>Baruri</value>

</constructor-arg>

<constructor-arg index="3" type="java.lang.String">

<value>

</value>

</constructor-arg>

<constructor-arg index="4" type="java.lang.String">

<value>439-45-4543</value>

</constructor-arg>

<constructor-arg index="5" type="java.time.LocalDate">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="6">

<ref bean="airport01" />

</constructor-arg>

<constructor-arg index="7">

<ref bean="airport02" />

</constructor-arg>

<constructor-arg index="8" type="int">

<value>25</value>

</constructor-arg>

<constructor-arg index="9" type="java.lang.String">

<value>M</value>

</constructor-arg>

<constructor-arg index="10" type="java.lang.String">

<value>Veg</value>

</constructor-arg>

</bean>

<bean id="traveller04" class="com.rollingstone.springframework.aop.example.Traveller">

<constructor-arg index="0" type="long">

<value>1</value>

</constructor-arg>

<constructor-arg index="1" type="java.lang.String">

<value>Varun</value>

</constructor-arg>

<constructor-arg index="2" type="java.lang.String">

<value>Sharma</value>

</constructor-arg>

<constructor-arg index="3" type="java.lang.String">

<value>

</value>

</constructor-arg>

<constructor-arg index="4" type="java.lang.String">

<value>434-45-4578</value>

</constructor-arg>

<constructor-arg index="5" type="java.time.LocalDate">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="6">

<ref bean="airport01" />

</constructor-arg>

<constructor-arg index="7">

<ref bean="airport02" />

</constructor-arg>

<constructor-arg index="8" type="int">

<value>25</value>

</constructor-arg>

<constructor-arg index="9" type="java.lang.String">

<value>M</value>

</constructor-arg>

<constructor-arg index="10" type="java.lang.String">

<value>Veg</value>

</constructor-arg>

</bean>

<bean id="traveller05" class="com.rollingstone.springframework.aop.example.Traveller">

<constructor-arg index="0" type="long">

<value>5</value>

</constructor-arg>

<constructor-arg index="1" type="java.lang.String">

<value>David</value>

</constructor-arg>

<constructor-arg index="2" type="java.lang.String">

<value>Harrington</value>

</constructor-arg>

<constructor-arg index="3" type="java.lang.String">

<value>

</value>

</constructor-arg>

<constructor-arg index="4" type="java.lang.String">

<value>434-45-4543</value>

</constructor-arg>

<constructor-arg index="5" type="java.time.LocalDate">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="6">

<ref bean="airport01" />

</constructor-arg>

<constructor-arg index="7">

<ref bean="airport02" />

</constructor-arg>

<constructor-arg index="8" type="int">

<value>25</value>

</constructor-arg>

<constructor-arg index="9" type="java.lang.String">

<value>M</value>

</constructor-arg>

<constructor-arg index="10" type="java.lang.String">

<value>Non Veg</value>

</constructor-arg>

</bean>

<bean id="traveller06" class="com.rollingstone.springframework.aop.example.Traveller">

<constructor-arg index="0" type="long">

<value>6</value>

</constructor-arg>

<constructor-arg index="1" type="java.lang.String">

<value>Nicolaus</value>

</constructor-arg>

<constructor-arg index="2" type="java.lang.String">

<value>Loriante</value>

</constructor-arg>

<constructor-arg index="3" type="java.lang.String">

<value>

</value>

</constructor-arg>

<constructor-arg index="4" type="java.lang.String">

<value>834-45-4943</value>

</constructor-arg>

<constructor-arg index="5" type="java.time.LocalDate">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="6">

<ref bean="airport02" />

</constructor-arg>

<constructor-arg index="7">

<ref bean="airport03" />

</constructor-arg>

<constructor-arg index="8" type="int">

<value>25</value>

</constructor-arg>

<constructor-arg index="9" type="java.lang.String">

<value>M</value>

</constructor-arg>

<constructor-arg index="10" type="java.lang.String">

<value>Non Veg</value>

</constructor-arg>

</bean>

<bean id="traveller07" class="com.rollingstone.springframework.aop.example.Traveller">

<constructor-arg index="0" type="long">

<value>7</value>

</constructor-arg>

<constructor-arg index="1" type="java.lang.String">

<value>Dean</value>

</constructor-arg>

<constructor-arg index="2" type="java.lang.String">

<value>Jones</value>

</constructor-arg>

<constructor-arg index="3" type="java.lang.String">

<value>

</value>

</constructor-arg>

<constructor-arg index="4" type="java.lang.String">

<value>434-98-4543</value>

</constructor-arg>

<constructor-arg index="5" type="java.time.LocalDate">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="6">

<ref bean="airport02" />

</constructor-arg>

<constructor-arg index="7">

<ref bean="airport03" />

</constructor-arg>

<constructor-arg index="8" type="int">

<value>25</value>

</constructor-arg>

<constructor-arg index="9" type="java.lang.String">

<value>M</value>

</constructor-arg>

<constructor-arg index="10" type="java.lang.String">

<value>Non Veg</value>

</constructor-arg>

</bean>

<bean id="traveller08" class="com.rollingstone.springframework.aop.example.Traveller">

<constructor-arg index="0" type="long">

<value>8</value>

</constructor-arg>

<constructor-arg index="1" type="java.lang.String">

<value>Michelle</value>

</constructor-arg>

<constructor-arg index="2" type="java.lang.String">

<value>Marsh</value>

</constructor-arg>

<constructor-arg index="3" type="java.lang.String">

<value>

</value>

</constructor-arg>

<constructor-arg index="4" type="java.lang.String">

<value>434-45-4543</value>

</constructor-arg>

<constructor-arg index="5" type="java.time.LocalDate">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="6">

<ref bean="airport02" />

</constructor-arg>

<constructor-arg index="7">

<ref bean="airport03" />

</constructor-arg>

<constructor-arg index="8" type="int">

<value>25</value>

</constructor-arg>

<constructor-arg index="9" type="java.lang.String">

<value>F</value>

</constructor-arg>

<constructor-arg index="10" type="java.lang.String">

<value>Non Veg</value>

</constructor-arg>

</bean>

<bean id="traveller09" class="com.rollingstone.springframework.aop.example.Traveller">

<constructor-arg index="0" type="long">

<value>9</value>

</constructor-arg>

<constructor-arg index="1" type="java.lang.String">

<value>Julia</value>

</constructor-arg>

<constructor-arg index="2" type="java.lang.String">

<value>Parker</value>

</constructor-arg>

<constructor-arg index="3" type="java.lang.String">

<value>

</value>

</constructor-arg>

<constructor-arg index="4" type="java.lang.String">

<value>434-45-4987</value>

</constructor-arg>

<constructor-arg index="5" type="java.time.LocalDate">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="6">

<ref bean="airport02" />

</constructor-arg>

<constructor-arg index="7">

<ref bean="airport03" />

</constructor-arg>

<constructor-arg index="8" type="int">

<value>25</value>

</constructor-arg>

<constructor-arg index="9" type="java.lang.String">

<value>M</value>

</constructor-arg>

<constructor-arg index="10" type="java.lang.String">

<value>Non Veg</value>

</constructor-arg>

</bean>

<bean id="traveller10" class="com.rollingstone.springframework.aop.example.Traveller">

<constructor-arg index="0" type="long">

<value>10</value>

</constructor-arg>

<constructor-arg index="1" type="java.lang.String">

<value>David</value>

</constructor-arg>

<constructor-arg index="2" type="java.lang.String">

<value>Boon</value>

</constructor-arg>

<constructor-arg index="3" type="java.lang.String">

<value>

</value>

</constructor-arg>

<constructor-arg index="4" type="java.lang.String">

<value>434-45-4543</value>

</constructor-arg>

<constructor-arg index="5" type="java.time.LocalDate">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="6">

<ref bean="airport03" />

</constructor-arg>

<constructor-arg index="7">

<ref bean="airport04" />

</constructor-arg>

<constructor-arg index="8" type="int">

<value>25</value>

</constructor-arg>

<constructor-arg index="9" type="java.lang.String">

<value>M</value>

</constructor-arg>

<constructor-arg index="10" type="java.lang.String">

<value>Non Veg</value>

</constructor-arg>

</bean>

<bean id="traveller11" class="com.rollingstone.springframework.aop.example.Traveller">

<constructor-arg index="0" type="long">

<value>11</value>

</constructor-arg>

<constructor-arg index="1" type="java.lang.String">

<value>Porchia</value>

</constructor-arg>

<constructor-arg index="2" type="java.lang.String">

<value>Masey</value>

</constructor-arg>

<constructor-arg index="3" type="java.lang.String">

<value>

</value>

</constructor-arg>

<constructor-arg index="4" type="java.lang.String">

<value>434-45-4345</value>

</constructor-arg>

<constructor-arg index="5" type="java.time.LocalDate">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="6">

<ref bean="airport03" />

</constructor-arg>

<constructor-arg index="7">

<ref bean="airport04" />

</constructor-arg>

<constructor-arg index="8" type="int">

<value>25</value>

</constructor-arg>

<constructor-arg index="9" type="java.lang.String">

<value>M</value>

</constructor-arg>

<constructor-arg index="10" type="java.lang.String">

<value>Non Veg</value>

</constructor-arg>

</bean>

<bean id="traveller12" class="com.rollingstone.springframework.aop.example.Traveller">

<constructor-arg index="0" type="long">

<value>12</value>

</constructor-arg>

<constructor-arg index="1" type="java.lang.String">

<value>Steven</value>

</constructor-arg>

<constructor-arg index="2" type="java.lang.String">

<value>Cook</value>

</constructor-arg>

<constructor-arg index="3" type="java.lang.String">

<value>

</value>

</constructor-arg>

<constructor-arg index="4" type="java.lang.String">

<value>434-45-4393</value>

</constructor-arg>

<constructor-arg index="5" type="java.time.LocalDate">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="6">

<ref bean="airport03" />

</constructor-arg>

<constructor-arg index="7">

<ref bean="airport04" />

</constructor-arg>

<constructor-arg index="8" type="int">

<value>25</value>

</constructor-arg>

<constructor-arg index="9" type="java.lang.String">

<value>M</value>

</constructor-arg>

<constructor-arg index="10" type="java.lang.String">

<value>Non Veg</value>

</constructor-arg>

</bean>

<bean id="traveller13" class="com.rollingstone.springframework.aop.example.Traveller">

<constructor-arg index="0" type="long">

<value>13</value>

</constructor-arg>

<constructor-arg index="1" type="java.lang.String">

<value>Allistair</value>

</constructor-arg>

<constructor-arg index="2" type="java.lang.String">

<value>Cook</value>

</constructor-arg>

<constructor-arg index="3" type="java.lang.String">

<value>

</value>

</constructor-arg>

<constructor-arg index="4" type="java.lang.String">

<value>434-45-9459</value>

</constructor-arg>

<constructor-arg index="5" type="java.time.LocalDate">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="6">

<ref bean="airport04" />

</constructor-arg>

<constructor-arg index="7">

<ref bean="airport05" />

</constructor-arg>

<constructor-arg index="8" type="int">

<value>25</value>

</constructor-arg>

<constructor-arg index="9" type="java.lang.String">

<value>M</value>

</constructor-arg>

<constructor-arg index="10" type="java.lang.String">

<value>Non Veg</value>

</constructor-arg>

</bean>

<bean id="traveller14" class="com.rollingstone.springframework.aop.example.Traveller">

<constructor-arg index="0" type="long">

<value>14</value>

</constructor-arg>

<constructor-arg index="1" type="java.lang.String">

<value>Stacey</value>

</constructor-arg>

<constructor-arg index="2" type="java.lang.String">

<value>Winslet</value>

</constructor-arg>

<constructor-arg index="3" type="java.lang.String">

<value>

</value>

</constructor-arg>

<constructor-arg index="4" type="java.lang.String">

<value>434-45-9564</value>

</constructor-arg>

<constructor-arg index="5" type="java.time.LocalDate">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="6">

<ref bean="airport04" />

</constructor-arg>

<constructor-arg index="7">

<ref bean="airport05" />

</constructor-arg>

<constructor-arg index="8" type="int">

<value>25</value>

</constructor-arg>

<constructor-arg index="9" type="java.lang.String">

<value>F</value>

</constructor-arg>

<constructor-arg index="10" type="java.lang.String">

<value>Non Veg</value>

</constructor-arg>

</bean>

<bean id="traveller15" class="com.rollingstone.springframework.aop.example.Traveller">

<constructor-arg index="0" type="long">

<value>15</value>

</constructor-arg>

<constructor-arg index="1" type="java.lang.String">

<value>Steve</value>

</constructor-arg>

<constructor-arg index="2" type="java.lang.String">

<value>Gates</value>

</constructor-arg>

<constructor-arg index="3" type="java.lang.String">

<value>

</value>

</constructor-arg>

<constructor-arg index="4" type="java.lang.String">

<value>434-89-9459</value>

</constructor-arg>

<constructor-arg index="5" type="java.time.LocalDate">

<ref bean="dateOfBirth" />

</constructor-arg>

<constructor-arg index="6">

<ref bean="airport04" />

</constructor-arg>

<constructor-arg index="7">

<ref bean="airport05" />

</constructor-arg>

<constructor-arg index="8" type="int">

<value>25</value>

</constructor-arg>

<constructor-arg index="9" type="java.lang.String">

<value>M</value>

</constructor-arg>

<constructor-arg index="10" type="java.lang.String">

<value>Non Veg</value>

</constructor-arg>

</bean>

<util:list id="listOfTravellersinAireport01" value-type="com.rollingstone.springframework.aop.example.Traveller">

<ref bean="traveller01" />

<ref bean="traveller02" />

<ref bean="traveller03" />

<ref bean="traveller04" />

<ref bean="traveller05" />

</util:list>

<util:list id="listOfTravellersinAireport02" value-type="com.rollingstone.springframework.aop.example.Traveller">

<ref bean="traveller06" />

<ref bean="traveller07" />

<ref bean="traveller08" />

<ref bean="traveller09" />

</util:list>

<util:list id="listOfTravellersinAireport03" value-type="com.rollingstone.springframework.aop.example.Traveller">

<ref bean="traveller10" />

<ref bean="traveller11" />

<ref bean="traveller12" />

</util:list>

<util:list id="listOfTravellersinAireport04" value-type="com.rollingstone.springframework.aop.example.Traveller">

<ref bean="traveller13" />

<ref bean="traveller14" />

<ref bean="traveller15" />

</util:list>

</beans>

1.56 – Conclusion

In this session we saw how Spring framework is connected to real life concepts.