**Day 34\_Java Assignment**

**1. Problem Description:**

ApplicationContext context = new ClassPathXmlApplicationContext(“be an Config.xml”);

Dog tommy = (Dog) context.getBean(“dog”);

Dog pluto = (Dog) context.getBean(“dog”);

**2. My Solution:**

**Main class:**

**package** com.example.SpringBootAssignment;

**import** org.springframework.boot.SpringApplication;

**import** org.springframework.boot.autoconfigure.SpringBootApplication;

**import** org.springframework.context.ApplicationContext;

**import** org.springframework.context.support.ClassPathXmlApplicationContext;

**import** com.surya.classes.Dog;

@SpringBootApplication

**public** **class** SpringBootAssignmentApplication {

**public** **static** **void** main(String[] args) {

SpringApplication.*run*(SpringBootAssignmentApplication.**class**, args);

ApplicationContext context = **new** ClassPathXmlApplicationContext("Config.xml");

// Retrieve beans from context

Dog tommy = (Dog) context.getBean("tommy");

Dog pluto = (Dog) context.getBean("pluto");

// Use the retrieved beans

System.***out***.println("Dog's name: " + tommy.getName());

System.***out***.println("Dog's breed: " + tommy.getBreed());

System.***out***.println("Dog's name: " + pluto.getName());

System.***out***.println("Dog's breed: " + pluto.getBreed());

}

}

**Dog class:**

**package** com.surya.classes;

**public** **class** Dog {

**private** String name;

**private** String breed;

// Constructors

**public** Dog(String name, String breed) {

**this**.name = name;

**this**.breed = breed;

}

// Getters and setters

**public** String getName() {

**return** name;

}

**public** **void** setName(String name) {

**this**.name = name;

}

**public** String getBreed() {

**return** breed;

}

**public** **void** setBreed(String breed) {

**this**.breed = breed;

}

}

**Config.xml:**

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

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

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

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

<!-- bean definitions here -->

<bean id="tommy" class="com.surya.classes.Dog" scope="prototype">

<constructor-arg value="Tommy" />

<constructor-arg value="Labrador" />

</bean>

<bean id="pluto" class="com.surya.classes.Dog" scope="prototype">

<constructor-arg value="Pluto" />

<constructor-arg value="Golden Retriever" />

</bean>

</beans>

**Output:**

Dog's name: Tommy

Dog's breed: Labrador

Dog's name: Pluto

Dog's breed: Golden Retriever