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// Hands-on 1 - Spring Boot Project Setup
// SpringLearnApplication.java
package com.cognizant.springlearn;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
@SpringBootApplication
public class SpringLearnApplication {
  private static final Logger LOGGER =
LoggerFactory.getLogger(SpringLearnApplication.class);
  public static void main(String[] args) {
    LOGGER.info("START main()");
     SpringApplication.run(SpringLearnApplication.class, args);
    displayDate();
    displayCountry();
    displayCountries();
    LOGGER.info("END main()");
  }
  public static void displayDate() {
     LOGGER.info("START displayDate()");
    ApplicationContext context = new ClassPathXmlApplicationContext("date-
format.xml");
     SimpleDateFormat format = context.getBean("dateFormat",
SimpleDateFormat.class);
    try {
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Date date = format.parse("31/12/2018");
       LOGGER.debug("Parsed Date: {}", date);
    } catch (ParseException e) {
       LOGGER.error("Error parsing date", e);
    }
    LOGGER.info("END displayDate()");
  }
  public static void displayCountry() {
     LOGGER.info("START displayCountry()");
    ApplicationContext context = new
ClassPathXmlApplicationContext("country.xml");
     Country country = context.getBean("country", Country.class);
     Country anotherCountry = context.getBean("country", Country.class);
     LOGGER.debug("Country: {}", country);
    LOGGER.info("END displayCountry()");
  }
  public static void displayCountries() {
     LOGGER.info("START displayCountries()");
    ApplicationContext context = new
ClassPathXmlApplicationContext("country.xml");
     List<Country> countryList = (List<Country>) context.getBean("countryList");
    for (Country c : countryList) {
       LOGGER.debug("Country: {}", c);
    }
    LOGGER.info("END displayCountries()");
  }
}
```

```
// Country.java
package com.cognizant.springlearn;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
public class Country {
  private static final Logger LOGGER = LoggerFactory.getLogger(Country.class);
  private String code;
  private String name;
  public Country() {
    LOGGER.debug("Inside Country Constructor.");
  }
  public String getCode() {
    LOGGER.debug("Getting Code");
    return code;
  }
  public void setCode(String code) {
    LOGGER.debug("Setting Code to {}", code);
    this.code = code;
  }
  public String getName() {
     LOGGER.debug("Getting Name");
     return name;
```

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}
  public void setName(String name) {
     LOGGER.debug("Setting Name to {}", name);
    this.name = name;
  }
  @Override
  public String toString() {
    return "Country [code=" + code + ", name=" + name + "]";
  }
}
// application.properties (src/main/resources)
logging.level.org.springframework=info
logging.level.com.cognizant.springlearn=debug
logging.pattern.console=%d{yyMMdd}|%d{HH:mm:ss.SSS}|%-20.20thread|%5p|%-
25.25logger{25}|%25M|%m%n
// date-format.xml (src/main/resources)
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"</pre>
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://www.springframework.org/schema/beans
    https://www.springframework.org/schema/beans/spring-beans.xsd">
  <bean id="dateFormat" class="java.text.SimpleDateFormat">
     <constructor-arg value="dd/MM/yyyy" />
  </bean>
```

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// country.xml (src/main/resources)
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"</pre>
   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
   xsi:schemaLocation="http://www.springframework.org/schema/beans
   https://www.springframework.org/schema/beans/spring-beans.xsd">
  <bean id="country" class="com.cognizant.springlearn.Country">
    property name="code" value="IN" />
    property name="name" value="India" />
  </bean>
  <bean id="in" class="com.cognizant.springlearn.Country">
    property name="code" value="IN" />
    roperty name="name" value="India" />
  </bean>
  <bean id="us" class="com.cognizant.springlearn.Country">
    code value="US" />
    coperty name="name" value="United States" />
  </bean>
  <bean id="de" class="com.cognizant.springlearn.Country">
    property name="code" value="DE" />
    content
  </bean>
  <bean id="jp" class="com.cognizant.springlearn.Country">
    code" value="JP" />
    property name="name" value="Japan" />
```

</beans>

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</bean>
  <bean id="countryList" class="java.util.ArrayList">
     <constructor-arg>
        t>
          <ref bean="in" />
          <ref bean="us" />
          <ref bean="de" />
          <ref bean="jp" />
        </list>
     </constructor-arg>
  </bean>
</beans>
 Country : Country [code=IN, name=India]
 Country List: [Country [code=IN, name=India], Country [code=US, name=United States], Country [cod
```