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//Example of Autowired using Annotations
//JavaProject name : AutowiredAnnotation
//class file name: Capital
package com.springautowired;
public class Capital {
      private String name;
    public String getName() {
        return name;
    public void setName(String name) {
       this.name = name;
    @Override
    public String toString() {
        return "Capital [name=" + name + "]";
}
//class file name: Country
package com.springautowired;
import org.springframework.beans.factory.annotation.Autowired;
public class Country {
      private String countryName;
    @Autowired
    private Capital capital;
    public String getCountryName() {
        return countryName;
    public void setCountryName(String countryName) {
        this.countryName = countryName;
    public Capital getCapital() {
        return capital;
    }
    public void setCapital(Capital capital) {
        this.capital = capital;
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}
    @Override
    public String toString() {
        return "Country [countryName=" + countryName + ", capital=" +
capital.toString() + "]";
    }
}
//class file name:Country2
package com.springautowired;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.beans.factory.annotation.Qualifier;
public class Country2 {
      private String countryName;
    @Autowired
    @Qualifier(value="myCapital2")
    private Capital capital;
    public String getCountryName() {
        return countryName;
    public void setCountryName(String countryName) {
        this.countryName = countryName;
    }
    public Capital getCapital() {
        return capital;
    }
    public void setCapital(Capital capital) {
        this.capital = capital;
    }
    @Override
    public String toString() {
        return "Country [countryName=" + countryName + ", capital=" +
capital.toString() + "]";
    }
}
//Main class file: AppMain
//package name:com.spring
package com.spring;
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import org.springframework.context.ApplicationContext;
import org.springframework.context.support.ClassPathXmlApplicationContext;
import com.springautowired.Country;
import com.springautowired.Country2;
public class AppMain {
      private static void autowired(String file) {
        ApplicationContext ac = new ClassPathXmlApplicationContext(file);
        if (file.equalsIgnoreCase("autowired.xml")) {
            Country country = ac.getBean("myCountry", Country.class);
            System.out.println(country.toString());
        } else {
            Country2 country = ac.getBean("myCountry", Country2.class);
            System.out.println(country.toString());
        }
    }
    public static void main(String[] args) {
        int choice = Menu.displayMenu();
        switch (choice) {
        case 1:
            System.out.println("'Autowired annotation' selected");
            autowired("autowired.xml");
            break;
        case 2:
            System.out.println("'Autowired with Qualifier annotation' selected");
            autowired("autowired-qualifier.xml");
            break;
        default:
            System.err.println("Invalid choice.");
        }
    }
}
//class file name:Menu
package com.spring;
public class Menu {
      public static int displayMenu() {
             // TODO Auto-generated method stub
             return 0;
      }
```

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}
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//pom.xml file

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xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0"
https://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <groupId>com.autowired
  <artifactId>AutowiredAnnotation</artifactId>
  <version>0.0.1-SNAPSHOT</version>
  <dependencies>
       <!-- https://mvnrepository.com/artifact/org.springframework/spring-beans -->
       <dependency>
           <groupId>org.springframework
           <artifactId>spring-beans</artifactId>
           <version>5.0.6.RELEASE
       </dependency>
       <!-- https://mvnrepository.com/artifact/org.springframework/spring-context --
       <dependency>
           <groupId>org.springframework</groupId>
           <artifactId>spring-context</artifactId>
           <version>5.0.6.RELEASE
       </dependency>
   </dependencies>
   <build>
       <finalName>${project.artifactId}</finalName>
   </build>
</project>
//autowired.xml file
<?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"
xmlns:context="http://www.springframework.org/schema/context"
   xsi:schemaLocation="
       http://www.springframework.org/schema/beans
http://www.springframework.org/schema/beans/spring-beans.xsd
       http://www.springframework.org/schema/context
http://www.springframework.org/schema/context/spring-context.xsd">
   <!-- Used to activate the @Autowired annotation in Spring -->
   <context:annotation-config />
   <bean id="myCapital" class="com.springautowired.Capital">
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cproperty name="name" value="Delhi" />
    </bean>
    <bean id="myCountry" class="com.springautowired.Country">
        cproperty name="countryName" value="India" />
    </bean>
</beans>
///autowired-qualifier.xml file
<?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"
xmlns:context="http://www.springframework.org/schema/context"
    xsi:schemaLocation="
        http://www.springframework.org/schema/beans
http://www.springframework.org/schema/beans/spring-beans.xsd
        http://www.springframework.org/schema/context
http://www.springframework.org/schema/context/spring-context.xsd">
    <!-- Used to activate the @Autowired annotation in Spring -->
    <context:annotation-config />
    <bean id="myCapital1" class="com.springautowired.Capital">
        cproperty name="name" value="The Hague" />
    </bean>
    <bean id="myCapital2" class="com.springautowired.Capital">
        cproperty name="name" value="Amsterdam" />
    </bean>
    <bean id="myCountry" class="com.springautowired.Country2">
        cproperty name="countryName" value="Netherlands" />
    </bean>
</beans>
```

Output: Invalid choice.