

## SPRING FIRST APPLICATION IN ECLIPSE

Download Links:

JDK:

<http://www.oracle.com/technetwork/java/javase/downloads/java-archive-downloads-javase7-521261.html>

Eclipse:

<https://www.eclipse.org/downloads/packages/eclipse-ide-java-ee-developers/lunasr2>

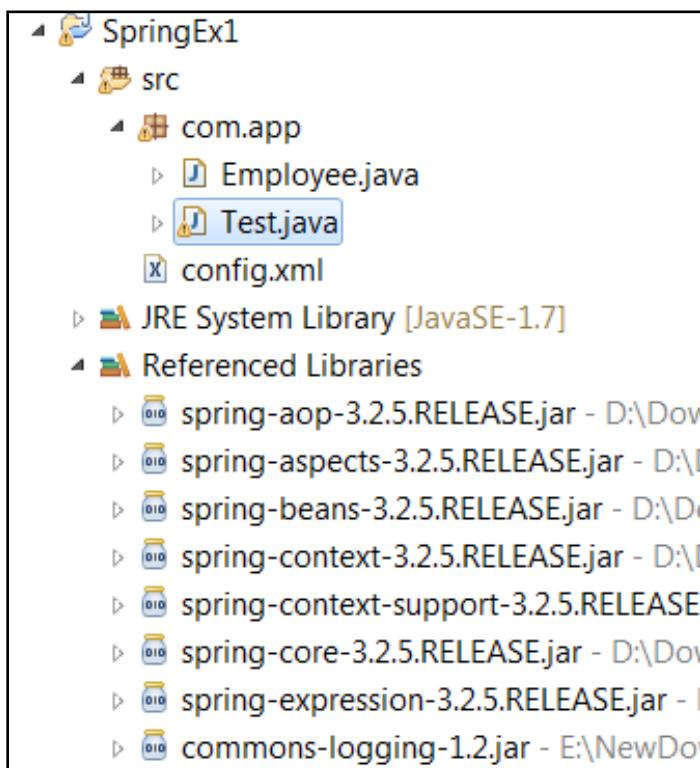
Spring Jars :

<https://repo.spring.io/release/org/springframework/spring/3.2.6.RELEASE/spring-framework-3.2.6.RELEASE-dist.zip>

Commons Logging Jar:

<http://www-eu.apache.org/dist//commons/logging/binaries/commons-logging-1.2-bin.zip>

Folder Structure:-



**SETUP:**

#1 Create Java Project In Eclipse

=> File Menu=>New Option =>Java Project =>Enter Project Name =>finish

Ex ProjectName : SpringEx1

#2 Add Jars to project (Spring +Commons Logging Jars)

=>Right click on Project =>Build Path.. =>Configure Build Path =>Choose "Library" Tab. =>Click "Add External Jars" =>Choose Spring Jars & commons Logging jar => finish/ok

**CODING:****1. Spring Bean (.java)**

=>Right click on src folder =>new option => choose "class" =>Enter Package & name

ex: Package =com.app name = Employee

=>click on Finish button.

code:Employee.java

```
package com.app;
```

```
public class Employee {
```

```
    private int empld;  
    private String empName;  
    private double empSal;
```

```
    public int getEmpld() {  
        return empld;  
    }  
    public void setEmpld(int empld) {  
        this.empld = empld;  
    }  
    public String getEmpName() {  
        return empName;  
    }
```

```

public void setEmpName(String empName) {
    this.empName = empName;
}
public double getEmpSal() {
    return empSal;
}
public void setEmpSal(double empSal) {
    this.empSal = empSal;
}
@Override
public String toString() {
    return "Employee [empId=" + empId + ", empName=" + empName
+ ", empSal=" + empSal + "]";
}
}

```

## 2.Spring configuration file(.xml)

=>right click on src folder => choose new => goto other... =>Search and select "XML File"

=>Next =>Enter name ex: config.xml =>finish button.

code: [config.xml](#)

```

<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"
       xmlns:p="http://www.springframework.org/schema/p"
       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-3.0.xsd
       ">
    <bean class="com.app.Employee" name="empObj">
        <property name="empId">
            <value>10</value>
        </property>
        <property name="empName">
            <value>ABC</value>
        
```

```

</property>
<property name="empSal">
    <value>12.36</value>
</property>
</bean>
</beans>

```

### 3. Test class:

=>Right click on src folder =>new =>class => Enter name & package  
ex: package=com.app,Name=Test  
code: Test.java

```

package com.app;

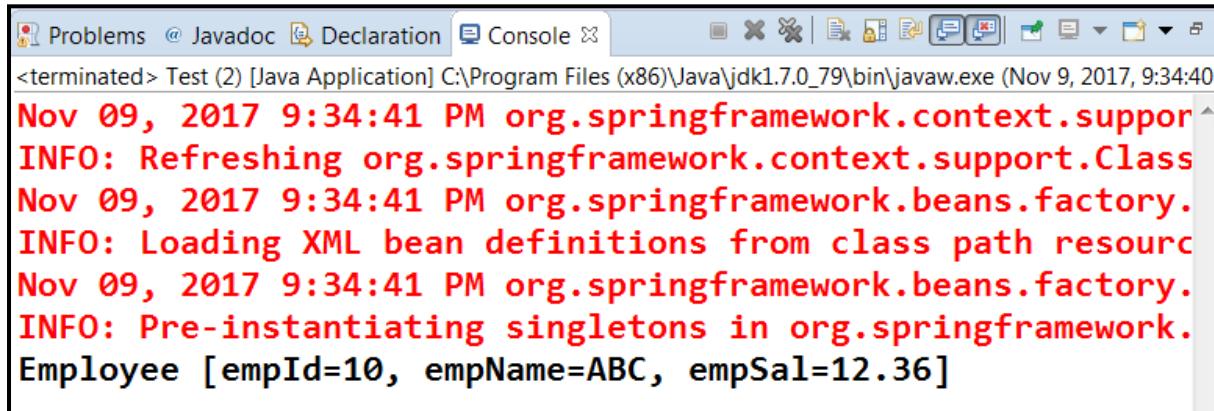
import org.springframework.context.ApplicationContext;
import org.springframework.context.support.ClassPathXmlApplicationContext;

public class Test {
    //main ctrl+space enter
    public static void main(String[] args) {
        ApplicationContext ctx=new ClassPathXmlApplicationContext("config.xml");
        Object ob=ctx.getBean("empObj");
        Employee e=(Employee) ob;
        System.out.println(e);
    }
}

```

=>Run Menu=>Run option or (ctrl+F11)

output:



```

Nov 09, 2017 9:34:41 PM org.springframework.context.support.ClassPathXmlApplicationContext info: Refreshing org.springframework.context.support.ClassPathXmlApplicationContext@5a3f13: startup date [Nov 09, 2017 9:34:41 PM]; root of context hierarchy
Nov 09, 2017 9:34:41 PM org.springframework.beans.factory.xml.XmlBeanDefinitionReader info: Loading XML bean definitions from class path resource [config.xml]
Nov 09, 2017 9:34:41 PM org.springframework.beans.factory.xml.XmlBeanDefinitionReader info: Pre-instantiating singletons in org.springframework.context.support.ClassPathXmlApplicationContext@5a3f13
Employee [empId=10, empName=ABC, empSal=12.36]

```