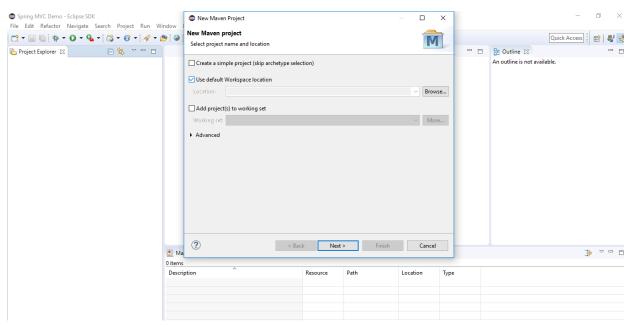
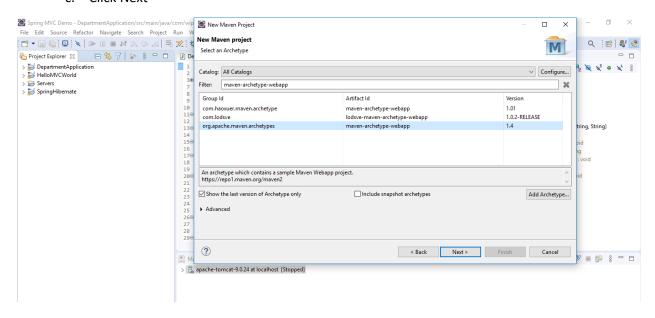
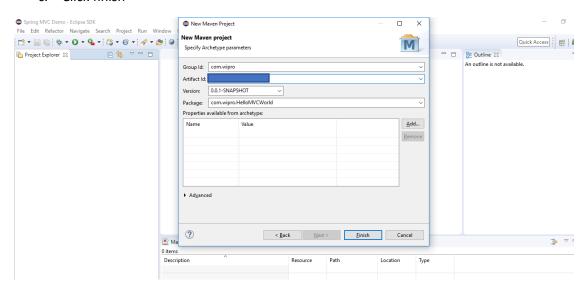
- 1. Create Maven Project and choose use default workspace location
 - a. Click Next



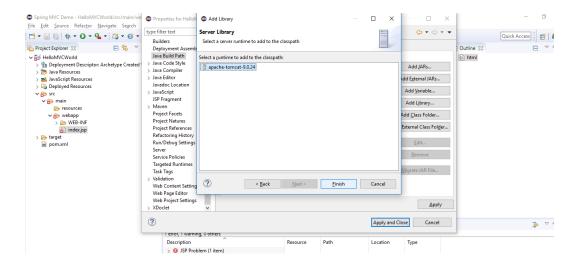
- 2. Under Archetype choose maven-archetype-webapp from below given group Id and version
 - a. Group Id: org.apache.maven.archetypes
 - b. Version can be any latest version. Here It is taken 1.4
 - i. You can also pick a specific version by checking the *Include snapshot archetypes*
 - c. Click Next



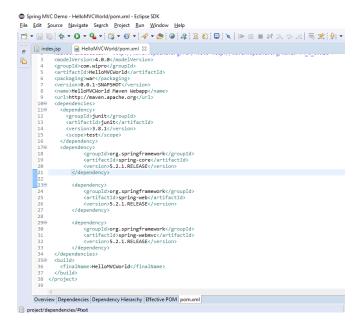
- 3. Fill the Maven Project details
 - a. Group ID :: com.wipro
 - b. Artifact ID :: DepartmentApp
 - c. Click finish



- 4. This generates Spring Web Project. With the initial Error
 - a. This is because the build path is not aware of servlets and jsp APIs.
 - b. Add Tomcat server
 - i. Click on window menu -> preferences -> server -> Runtime Environment
 - 1. Search the unzipped folder of your Apache Tomcat
 - c. right click on project -> Properties -> Java Build Path -> Add Library
 - d. Server Runtime -> Apache Tomcat -> Finish



- 5. Set the spring dependencies.
 - a. Open POM file
 - b. Add the following spring dependencies under the tag <dependencies>



- 6. Set the dispatcher Servlet.
 - a. Edit the web.xml file from project path: src->main->webapp->WEB-INF->web.xml
 - b. Include <servlet> and <servlet-mapping>

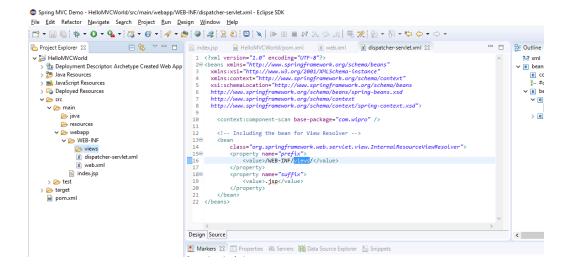
```
Spring MVC Demo - HelloMVCWorld/src/main/webapp/WEB-INF/web.xml - Eclipse SDK
                                                                                                                            n ×
File Edit Source Navigate Search Project Run Window Help
Quick Access
Project Explorer 🏻 🖹 🤄 ▽ 🖙 🗖 🔯 index.jsp 🕟 HelloMVCWorld/pom.xml 🔯 web.xml 🕱
                                                                                                 □ □ 📴 Outline 🛭
                                                                                                                          HelloMVCWorld

1 <IDOCTYPE web-app PUBLIC
2 "-//Sun Microsystems, Inc.//DTD Web Application 2.3//EN"
3 "http://java.sun.com/dtd/web-app_2_3.dtd" >
✓ ﷺ HelloMVCWorld
                                                                                                        OOCTYPE:web-app
                                ✓ e web-app
   🅦 Java Resources
                                                                                                          e display-name
  e servlet-name
                                                                                                            e servlet-class
    > e servlet-mapping
      🍃 java
      ✓ 🍃 webapp
✓ 🍃 WEB-INF
         x web.xml
       index.jsp
  > 🇁 target
                                  Design Source
```

7. Create the Spring configuration file names dispatcher-servlet.xml

```
<?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">
      <context:component-scan base-package="com.wipro" />
      <!-- Including the bean for View Resolver -->
<bean
class="org.springframework.web.servlet.view.InternalResourceViewResolver">
             cproperty name="prefix">
                    <value>/WEB-INF/views/</value>
             </property>
             cproperty name="suffix">
                    <value>.jsp</value>
             </property>
      </bean>
</beans>
```

- 8. Create the views folder under WEB-INF for defining the views
 - a. Right click on WEB-INF folder NEW -> Folder (Enter Name as views) > finish.



9. Create a class called Department under the package com.wipro.bean

```
package com.wipro.bean;
public class Department {
       private int deptno;
       private String dname;
       private String loc;
       public Department() {
       public Department(int deptno, String dname, String loc) {
               super();
               this.deptno = deptno;
               this.dname = dname;
               this.loc = loc;
       public int getDeptno() {
               return deptno;
       public void setDeptno(int deptno) {
               this.deptno = deptno;
       public String getDname() {
               return dname;
       public void setDname(String dname) {
               this.dname = dname;
       public String getLoc() {
```

10. Edit the Index.jsp page to request for a inserting operation for Department

```
<html>
<body>
<h2>Hello World!</h2>
<a href="PreInsertDepartment">Insert Department</a>
</body>
</html>
```

- 11. Create the controller class named DepartmentController
 - a. Right click on Java Resources and create a package called com.wipro.controller
 - b. Under the package Create a class called **DepartmentController**

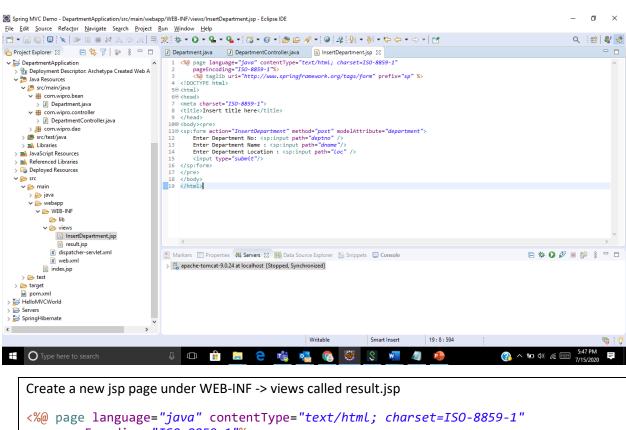
```
₽
Spring MVC Demo - DepartmentApplication/src/main/java/com/wipro/controller/DepartmentController.java - Eclipse IDE
<u>F</u>ile <u>E</u>dit <u>S</u>ource Refac<u>t</u>or <u>N</u>avigate Se<u>a</u>rch <u>P</u>roject <u>R</u>un <u>W</u>indow <u>H</u>elp
Q 😢 🐉 😭
 🕝 🚺 Department.java 🚺 DepartmentController.java 🛭
         1 package com.wipro.controller;
                                                                                                                                                                                                                                                          먎
            mimport org.springframework.stereotype.Controller;
import org.springframework.web.bind.annotation.NodelAttribute;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.servlet.ModelAndView;
          8 import com.wipro.bean.Department;
            @Controller
public class DepartmentController {
                  @RequestMapping("PreInsertDepartment")
public ModelAndView preInsert() {
    Department department = new Department();
    department.setDeptno(50);
    ModelAndView mv = new ModelAndView("InsertDepartment","department",department);
    return mv;
}
     20
21©
22
23
24
25
26
27
28 }
                  @RequestMapping("InsertDepartment")
public ModelAndView insertDepartment(@ModelAttribute("department") Department dept) {
                        ModelAndView mv = new ModelAndView("result", "department", dept);
                                                                                                                                                                            25:9:812
 Type here to search
                                                                   ₽ □ <u>•</u>
```

```
package com.wipro.controller;
import org.springframework.stereotype.Controller;
```

```
import org.springframework.web.bind.annotation.ModelAttribute;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.servlet.ModelAndView;
import com.wipro.bean.Department;
@Controller
public class DepartmentController {
      @RequestMapping("PreInsertDepartment")
      public ModelAndView preInsert() {
             Department department = new Department();
             department.setDeptno(50);
             ModelAndView mv = new
ModelAndView("InsertDepartment","department",department);
             return mv;
      }
      @RequestMapping("InsertDepartment")
      public ModelAndView insertDepartment(@ModelAttribute("department") Department
dept) {
             ModelAndView mv = new ModelAndView("result", "department", dept);
             return mv;
      }
```

12. Create a new jsp page under WEB-INF -> views called InsertDepartment.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"</pre>
   pageEncoding="ISO-8859-1"%>
    <%@ taglib uri="http://www.springframework.org/tags/form" prefix="sp" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<sp:form action="InsertDepartment" method="post" modelAttribute="department">
   Enter Department No: <sp:input path="deptno" />
   Enter Department Name : <sp:input path="dname"/>
   Enter Department Location : <sp:input path="loc" />
   <input type="submit"/>
</sp:form>
</body>
</html>
```



13. Run the Application from index.jsp

