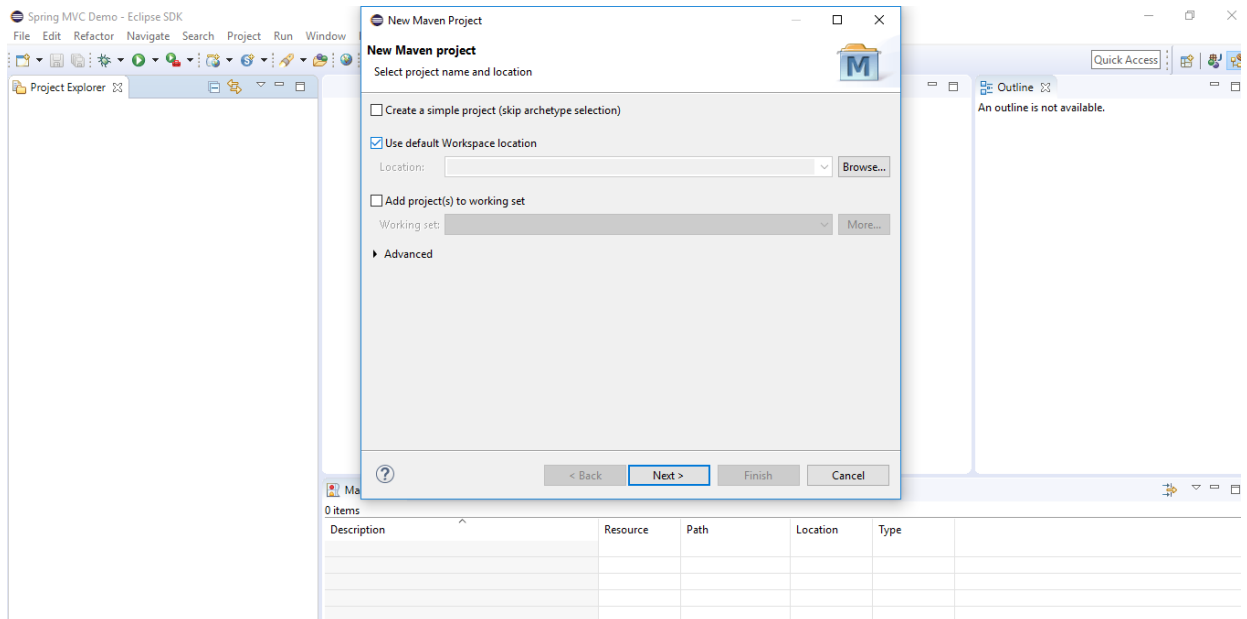
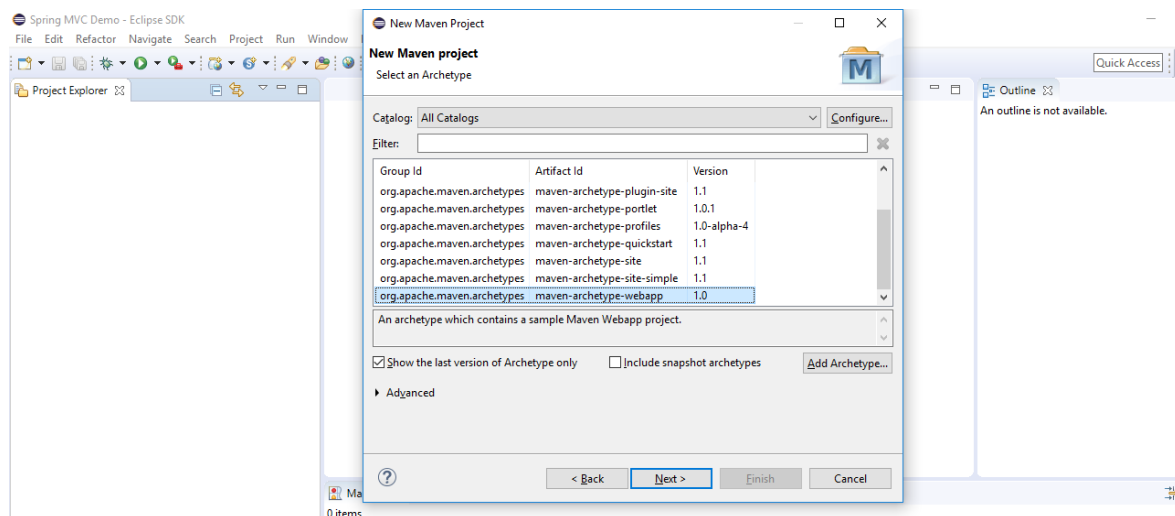


Spring MVC Project

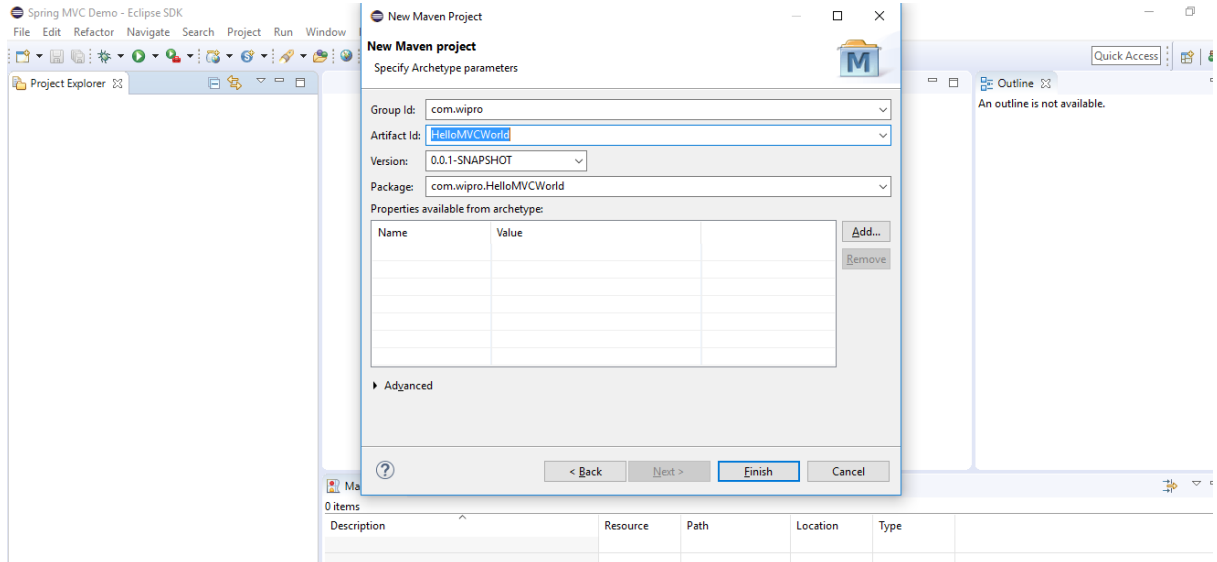
1. Create Maven Project and choose use default workspace location
 - a. Click Next



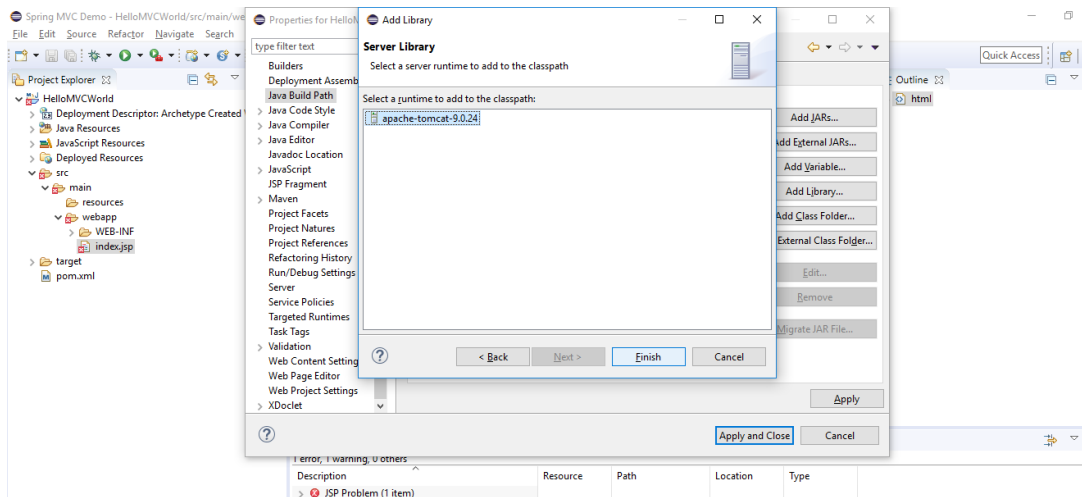
2. Under Archetype choose **maven-archetype-webapp** from below given group Id and version
 - a. Group Id : **org.apache.maven.archetypes**
 - b. Version can be any latest version. Here It is taken 1.0
 - i. You can also pick a specific version by checking the ***Include snapshot archetypes***
 - c. Click Next



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

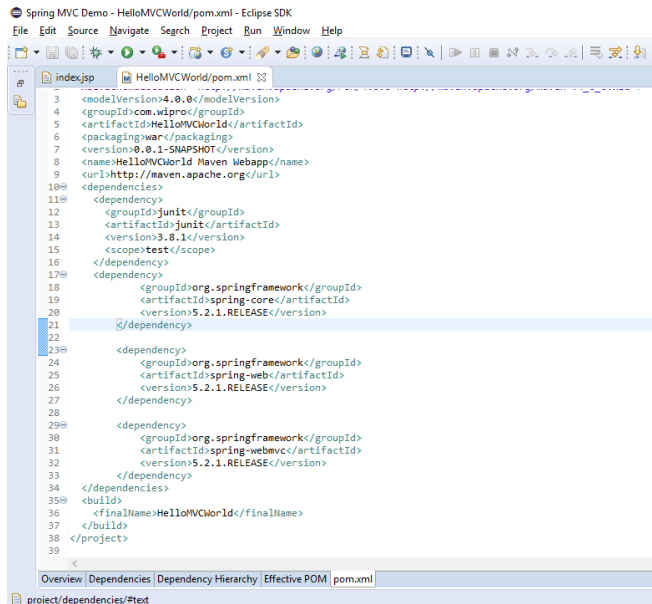


4. This generates Spring Web Project. With the initial Error
 - a. This is because the build path is not aware of servlets and jsp APIs.
 - b. Add Tomcat server
 - i. Click on window menu -> preferences -> server -> Runtime Environment
 1. Search the unzipped folder of your Apache Tomcat Server
 - c.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



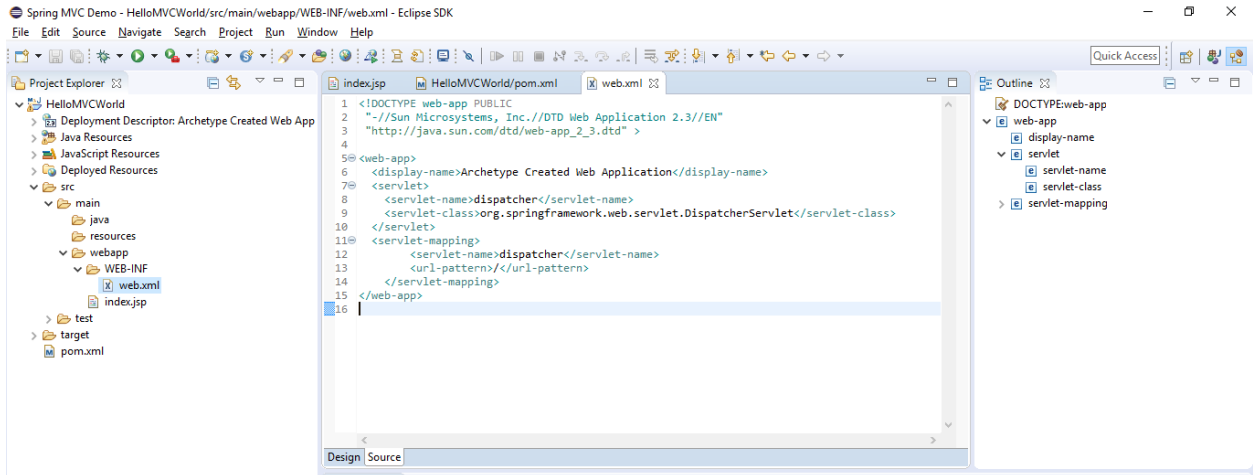
5. Set the spring dependencies.
 - a. Open POM file
 - b. Add the following spring dependencies under the tag <dependencies>

```
<dependency>
  <groupId>org.springframework</groupId>
  <artifactId>spring-core</artifactId>
  <version>5.2.1.RELEASE</version>
</dependency>
<dependency>
  <groupId>org.springframework</groupId>
  <artifactId>spring-web</artifactId>
  <version>5.2.1.RELEASE</version>
</dependency>
<dependency>
  <groupId>org.springframework</groupId>
  <artifactId>spring-webmvc</artifactId>
  <version>5.2.1.RELEASE</version>
</dependency>
```



6. Set the dispatcher Servlet.
 - a. Edit the web.xml file
 - b. Include <servlet> and <servlet-mapping>

```
<servlet>
  <servlet-name>dispatcher</servlet-name>
  <servlet-class>org.springframework.web.servlet.DispatcherServlet
</servlet-class>
</servlet>
<servlet-mapping>
  <servlet-name>dispatcher</servlet-name>
  <url-pattern>/</url-pattern>
</servlet-mapping>
```



7. Create the Spring configuration file named **dispatcher-servlet.xml**

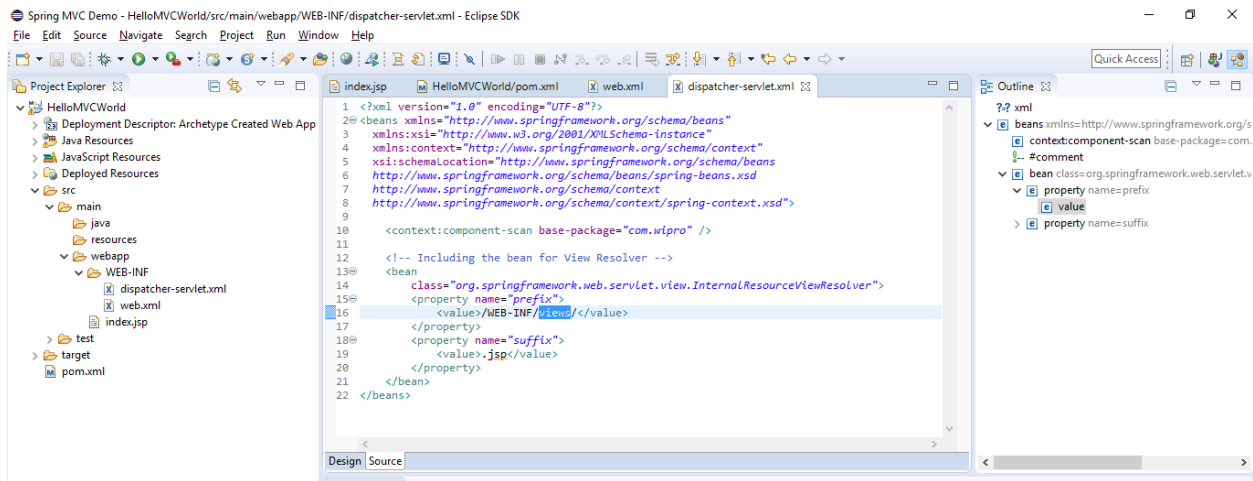
```

<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  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">

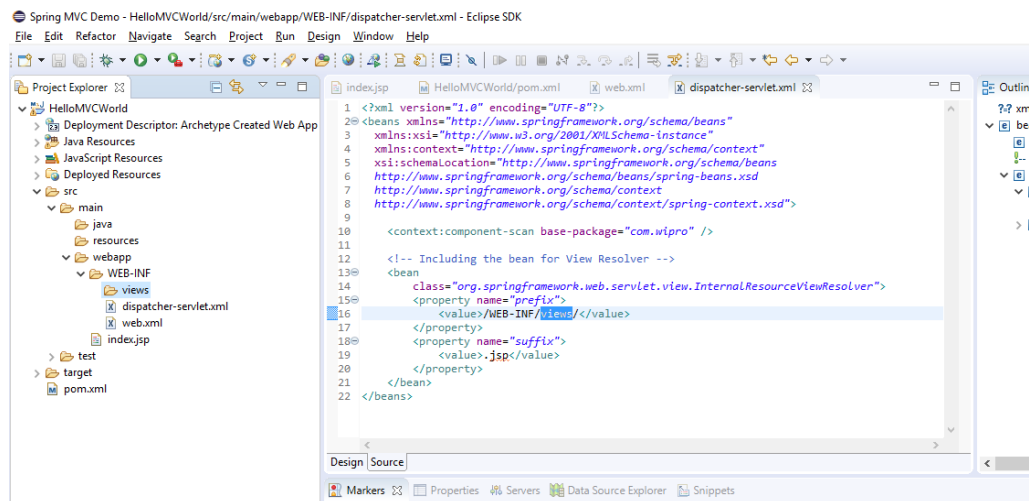
    <context:component-scan base-package="com.wipro" />

    <!-- Including the bean for View Resolver -->
    <bean
      class="org.springframework.web.servlet.view.InternalResourceViewResolver">
      <property name="prefix">
        <value>/WEB-INF/views/</value>
      </property>
      <property name="suffix">
        <value>.jsp</value>
      </property>
    </bean>
</beans>

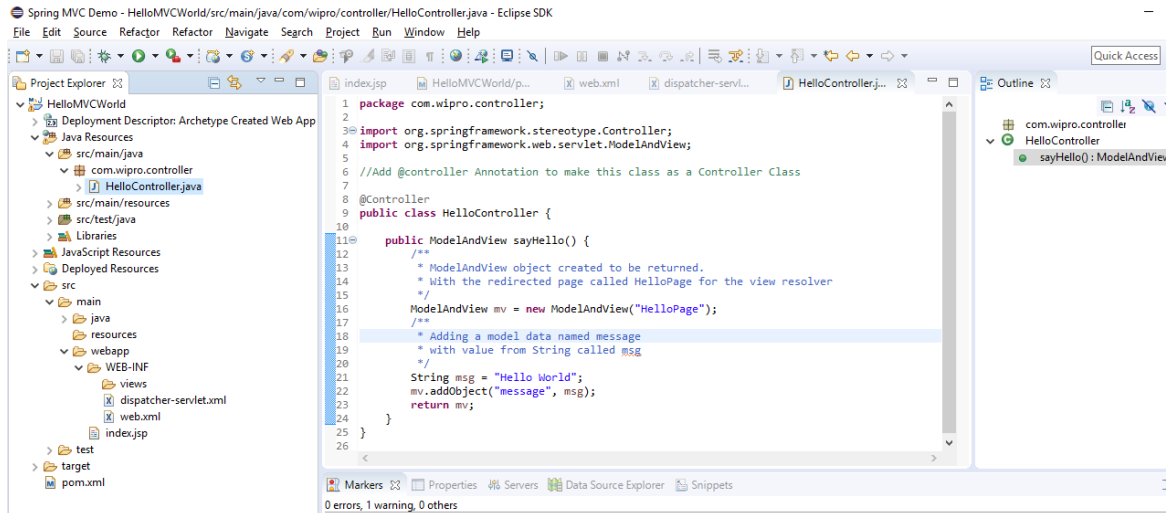
```



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



```
package com.wipro.controller;

import org.springframework.stereotype.Controller;
import org.springframework.web.servlet.ModelAndView;

//Add @controller Annotation to make this class as a Controller Class

@Controller
public class HelloController {
    @RequestMapping("/Hello")
    public ModelAndView sayHello() {
        /**
         * ModelAndView object created to be returned.
         * With the redirected page called HelloPage for the view resolver
         */
        ModelAndView mv = new ModelAndView("HelloPage");
        /**
         * Adding a model data named message
         * with value from String called msg
         */
        String msg = "Hello World";
        mv.addObject("message", msg);
        return mv;
    }
}
```

10. Edit the Index.jsp page to initiate the call to HelloPage

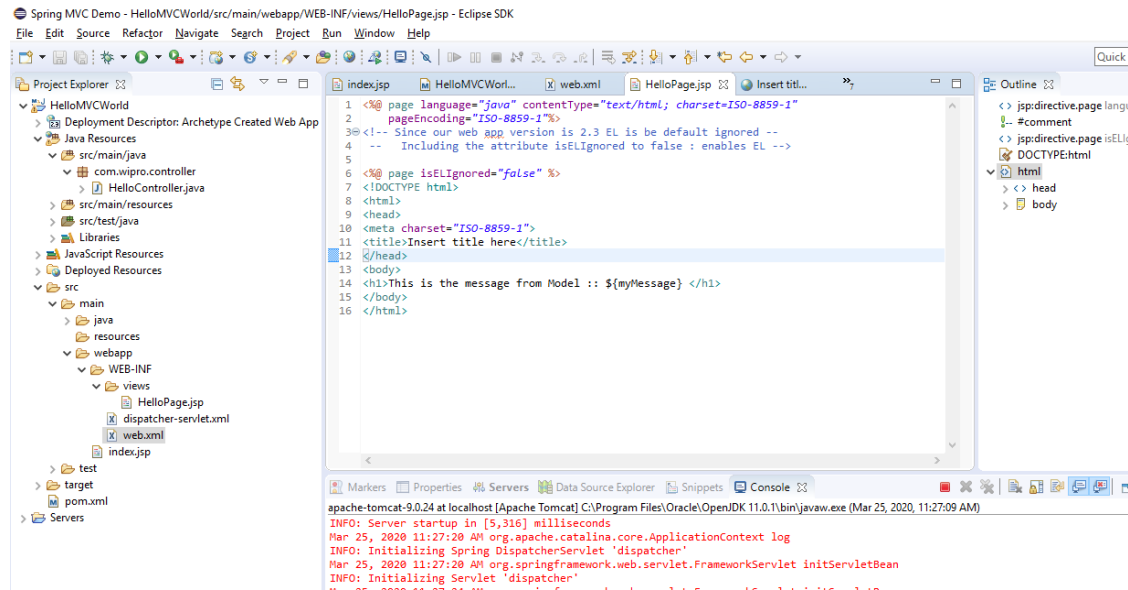
```
<html>
<body>
<h2>Hello World!</h2>
<a href="Hello">Click here </a>
</body>
</html>
```

11. Create a new jsp page under **WEB-INF -> views** called HelloPage.jsp
 - a. Use `${message}` for presenting the data stored in message model value from ModelAndView object.

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!-- Since our web app version is 2.3 EL is be default ignored --
-- Including the attribute isELIgnored to false : enables EL -->
```

```
<%@ page isELIgnored="false" %>
```

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<h1>This is the message from Model :: ${message }</h1>
</body>
</html>
```



12. Run the Application from index.jsp Page

