Java development environment setup for windows:

1. Install JDK <http://www.oracle.com/technetwork/java/javase/downloads/index.html>
2. Create a new system variable in the windows environment variables dialog name JAVA\_HOME and set the value to the JDK install directory ( ex C:\Program Files\Java\jdk1.7.0\_51)
3. Install Apache Ant:
   1. Download Zip: <http://ant.apache.org/bindownload.cgi>
   2. Extract to a local directory ( ex C:\ant193)
   3. make sure that C:\ant193 is the root folder and then you have all the sub-folders like c:\ant193\bin
4. Create a new system variable called ANT\_HOME and point it to the directory that was used in step 3 (ex C:\ant193)
5. Add %ANT\_HOME%\bin to the PATH environment variable
6. Install Apache Maven:
   1. Download Zip: <http://maven.apache.org/download.cgi>
   2. Extract to a local directory ( ex C:\maven311)
   3. make sure that C:\maven311 is the root folder and then you have all the sub-folders like C:\maven311\bin
7. Create a new system variable called MAVEN\_HOME and point it to the directory that was used in step 6 ( ex C:\maven311)
8. Add %MAVEN\_HOME%\bin to the PATH environment variable
9. Install Apache Tomcat:
   1. Download Zip <https://tomcat.apache.org/download-80.cgi>
   2. Extract to a local directory ( ex C:\apache-tomcat-803)
   3. make sure that C:\apache-tomcat-803 is the root folder and then you have all the sub-folders like C:\apache-tomcat-803\bin
10. Create a new system variable called CATALINA\_HOME and point it to the directory that was used in step 9 ( ex C:\apache-tomcat-803)
11. Open \CATALINA\_BASE\conf\tomcat-users.xml and add an administrator user:
    1. <role rolename="manager"/>
    2. <user username="admin" password="admin" roles="manager-gui"/>
12. To startup tomcat use the following script: %CATALINA\_HOME%\bin\catalina.bat start
13. Install Eclipse – copy Eclipse folder to local directory and run eclipse.exe
14. Install the Web Tools Platform (WTP) :
    1. In eclipse go to Help > Install new software
    2. Choose –All Available Sites—form the “Work with:” ddl
    3. Choose the features you want from the Web, XML, Java EE and OSGi Enterprise Development category. If unsure, pick both the Eclipse Java EE Developer Tools and JST Server Adapters Extensions and proceed, allowing it to select dependencies for you.
    4. Complete the install.
15. Install Spring IDE Project:
    1. In eclipse go to Help > Eclipse Marketplace
    2. Find “spring ide”
    3. Choose install
16. Install Apache Commons Logging
    1. Download zip: <http://commons.apache.org/proper/commons-logging/download_logging.cgi>
    2. Extract to a local directory ( ex C:\commons-logging-113)
    3. make sure that C:\commons-logging-113 is the root folder and then you have all the sub-folders like C:\commons-logging-113 \apidocs
17. Add the local directory to the CLASSPATH system variable
18. Download spring framework
    1. Download latest zip: <http://repo.spring.io/release/org/springframework/spring>
    2. Extract to a local directory ( ex C:\spring-framework-401)
    3. make sure that C:\spring-framework-401is the root folder and then you have all the sub-folders like C:\spring-framework-401\libs
19. Add the local directory to the CLASSPATH system variable

Spring MVC tutorial:

1. Open Eclipse and create a new project. Choose Spring > Spring Project >Next
2. Simple Projects > Simple Java
3. Create a folder named ‘war’
4. Go to <http://docs.spring.io/docs/Spring-MVC-step-by-step/part1.html>

Java development environment setup for mac:

1. Install JDK <http://www.oracle.com/technetwork/java/javase/downloads/index.html>