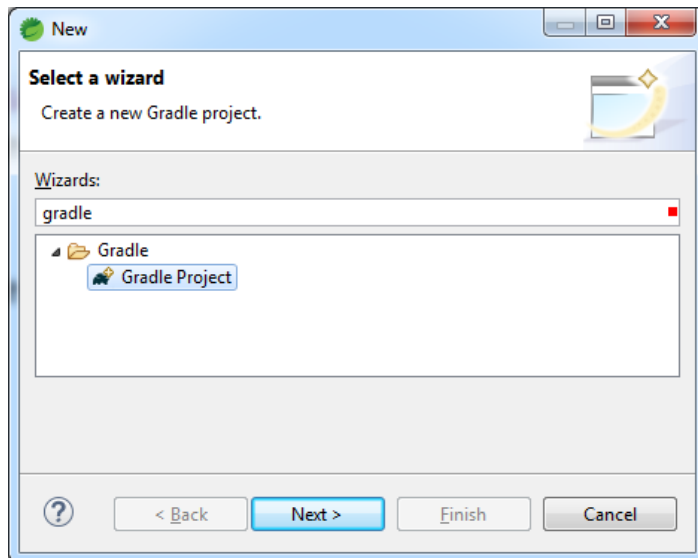


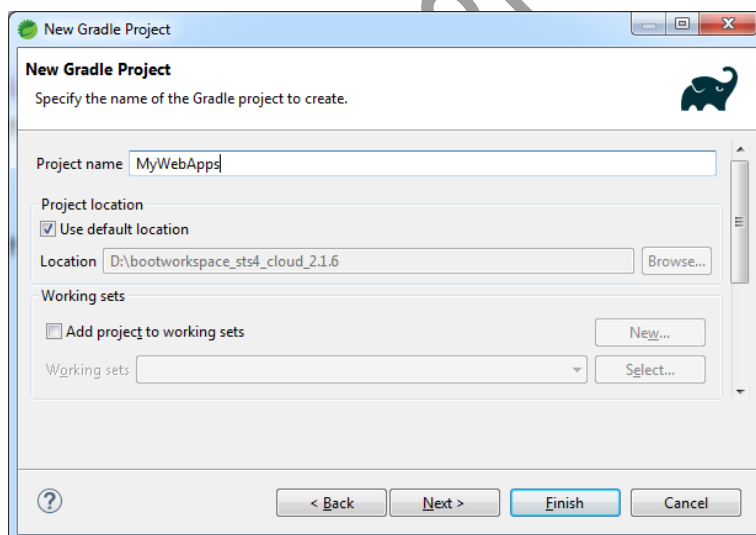
Gradle Servlets/JSP Web Application

1. CREATE GRADLE PROJECT

>File>New>Other...



Enter the name of the project: MyWebApp



> Next > Finish

2. CONFIGURING GRADLE:-

You need to add the configuration for your application to become "WEB Application". And can be run directly on Eclipse + Tomcat Plugin.

```
apply plugin: 'java'
apply plugin: 'war'
apply plugin: 'com.bmuschko.tomcat'
apply plugin: 'eclipse-wtp'

repositories {
    jcenter()
}

sourceCompatibility = 1.8
targetCompatibility = 1.8

dependencies {
    compile 'com.google.guava:guava:23.0'
    testCompile 'junit:junit:4.12'
    providedCompile "javax.servlet:javax.servlet-api:3.1.0"
}

dependencies {
    def tomcatVersion = '8.0.53'

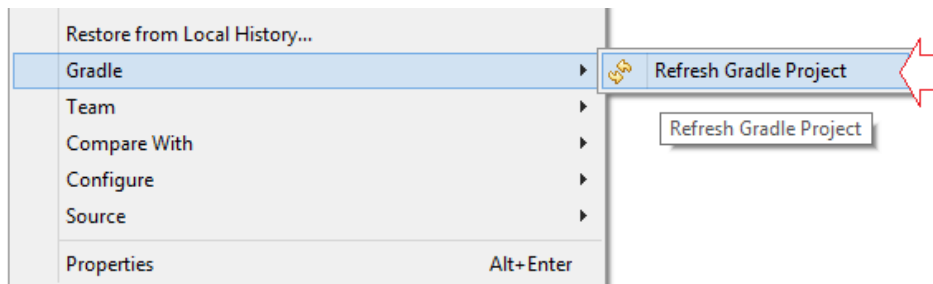
    tomcat "org.apache.tomcat.embed:tomcat-embed-core:${tomcatVersion}",
        "org.apache.tomcat.embed:tomcat-embed-logging-
juli:${tomcatVersion}",
        "org.apache.tomcat.embed:tomcat-embed-jasper:${tomcatVersion}"
}

buildscript {

    repositories {
        jcenter()
    }
}
```

```
dependencies {  
    classpath 'com.bmuschko:gradle-tomcat-plugin:2.5'  
}  
}
```

Note that each time there is a change in build.gradle you need to update the project, using the tool of Gradle.



3. ADD FOLDER TO APPLICATION:-

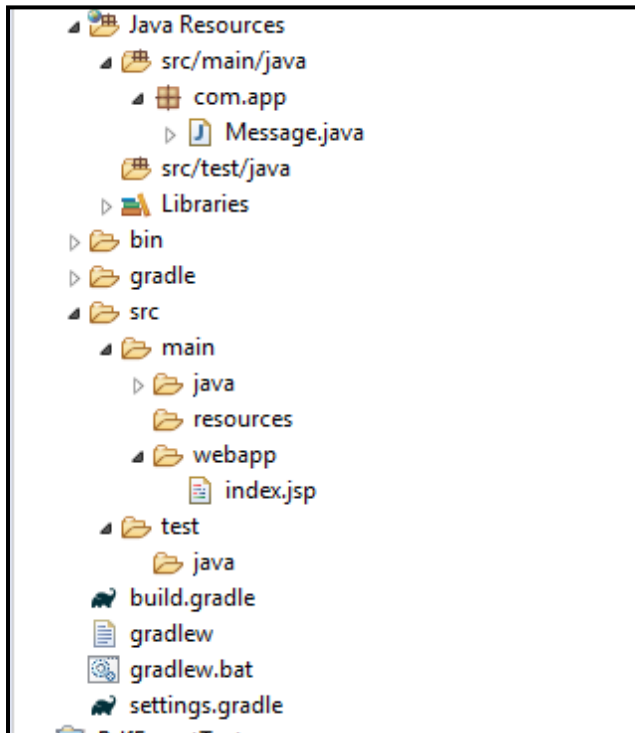
In "src/main" folder, you need to create 2 sub folders are "resources" and "webapp".

src/main/java: This folder has java sources.

src/main/resources: This folder can hold property files and other resources

src/main/webapp: This folder holds jsp and other web application content.

4. Write Code in Project



Servlet class:

```
package com.app;
```

```
import java.io.IOException;
```

```
import java.io.PrintWriter;
```

```
import javax.servlet.ServletException;
```

```
import javax.servlet.annotation.WebServlet;
```

```
import javax.servlet.http.HttpServlet;
```

```
import javax.servlet.http.HttpServletRequest;
```

```
import javax.servlet.http.HttpServletResponse;
```

```
@WebServlet("/home")
```

```
public class Message extends HttpServlet{
```

```
    private static final long serialVersionUID = -4633811587840173475L;
```

```
    @Override
```

```
    protected void doGet(HttpServletRequest req, HttpServletResponse  
resp)
```

```
        throws ServletException, IOException {  
            PrintWriter out=resp.getWriter();
```

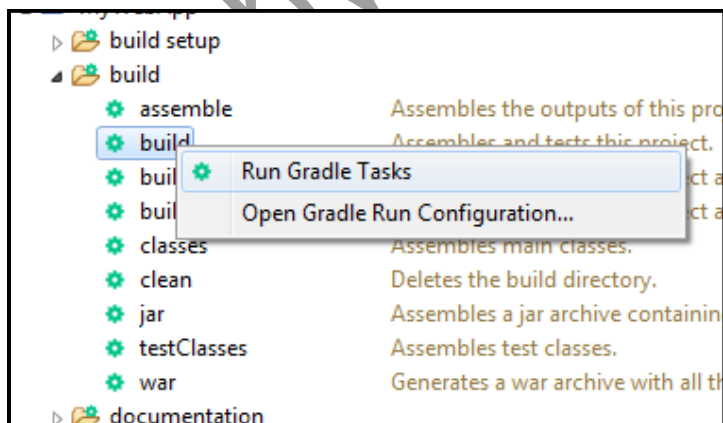
```
        out.println("Hello App");
    }
}
```

index.jsp file

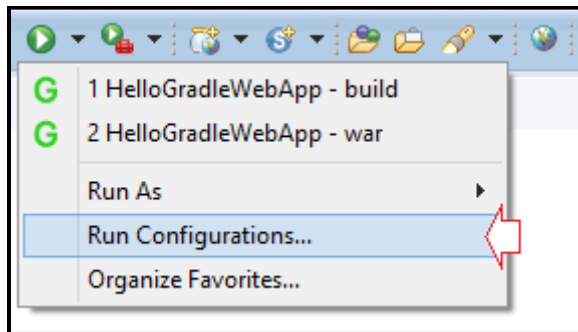
```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<h1>Welcome to All</h1>
</body>
</html>
```

5. EXECUTE GRADLE BUILD TASK

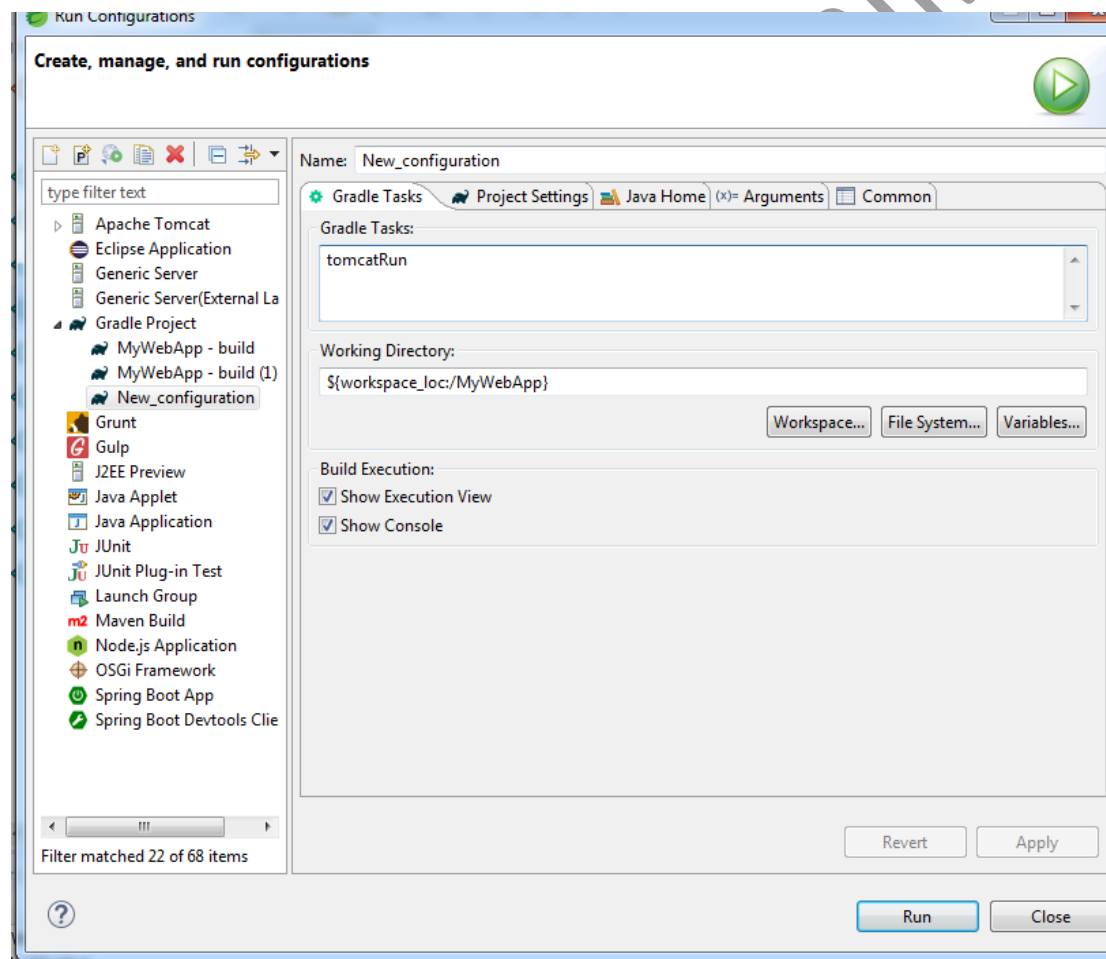
> Open "Gradle Task" view > Expand Project > choose build > Run Gradle Tasks



6. CONFIGURE TO RUN APPLICATION



Enter: tomcatRun > Apply > Run



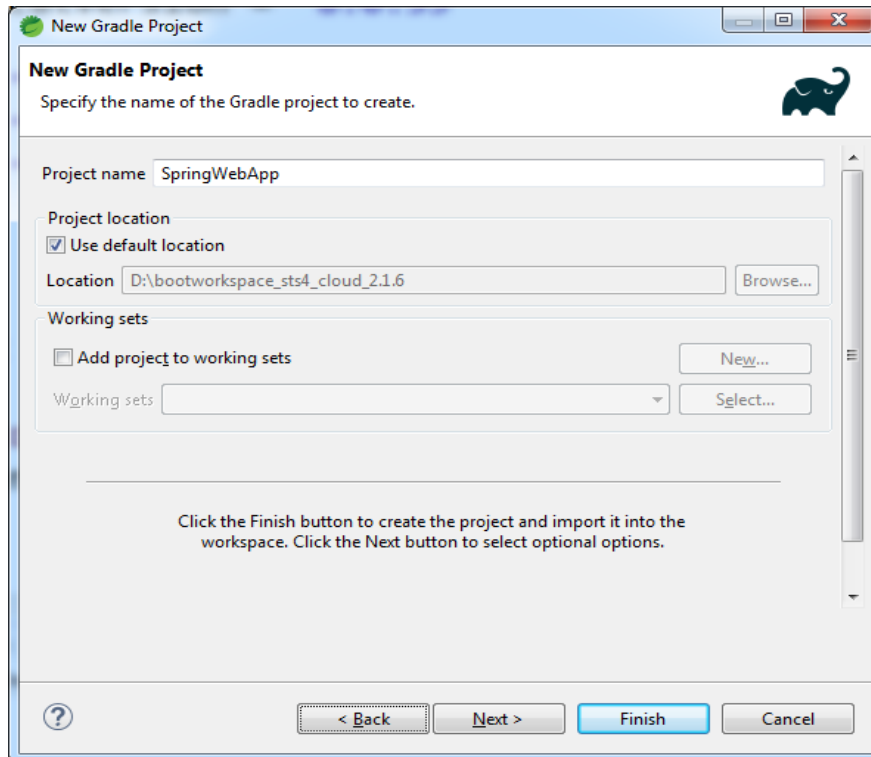
Goto browser and enter URL:

<http://localhost:8080/MyWebApp/home>

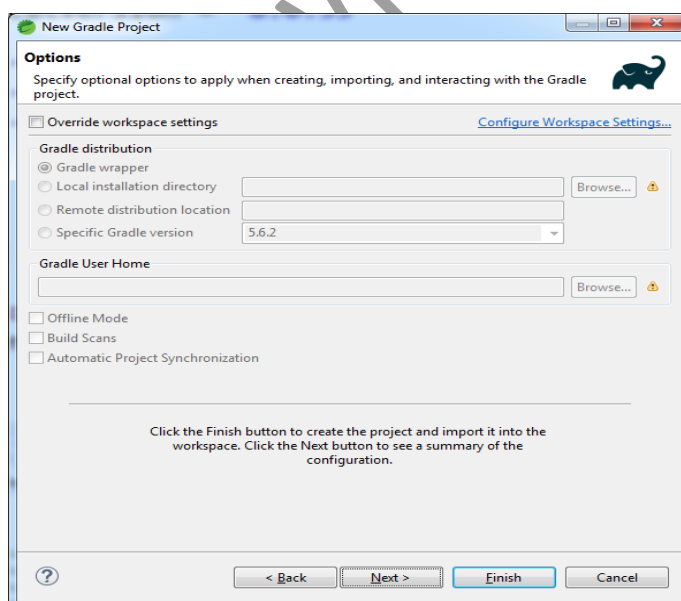
Spring Web Application using Gradle

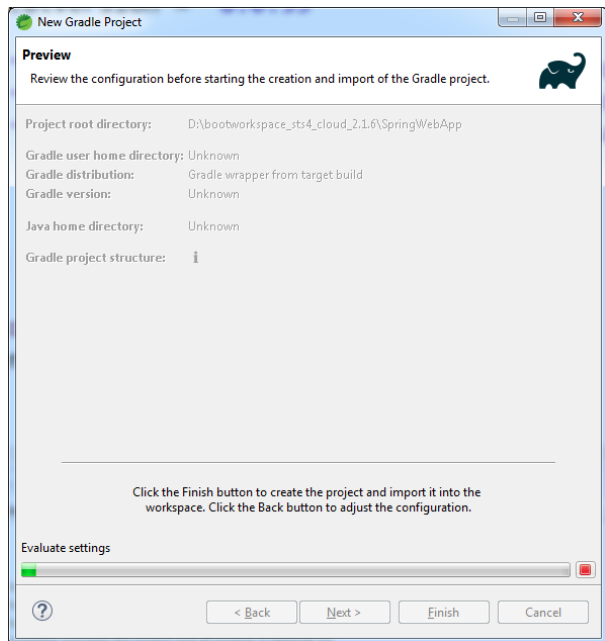
STEP#1 CREATE NEW GRADLE PROJECT

> File > New > Gradle Project > Enter Project Name : SpringWebApp

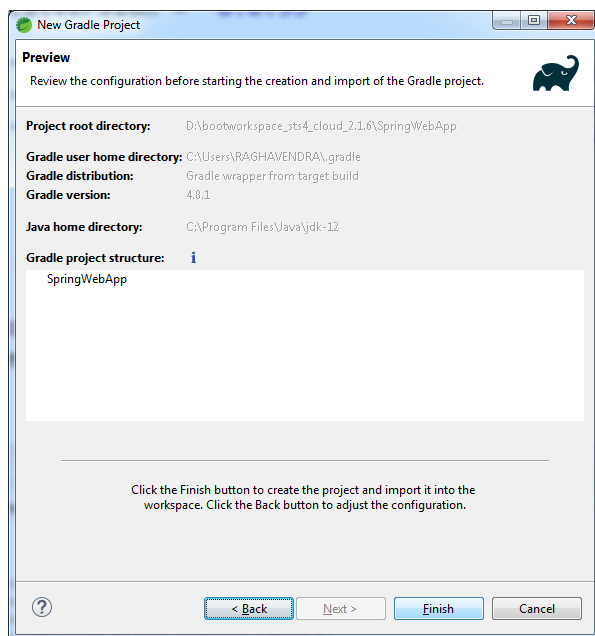


Click on Next Button

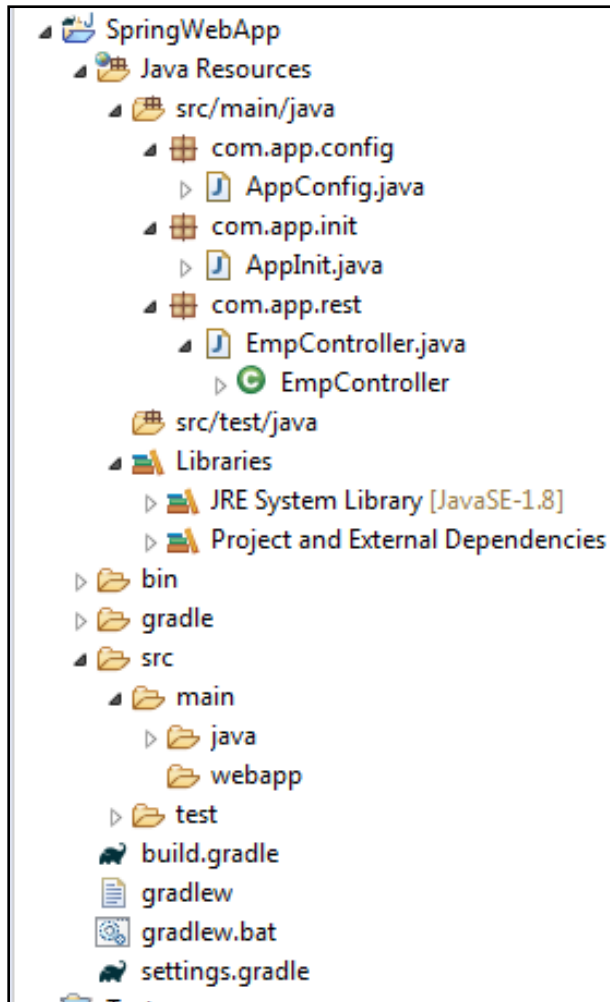




Click on Finish Button



Folder System:-



STEP#2 PROVIDE CODE IN PROJECT

build.gradle

```
apply plugin: 'java'
apply plugin: 'war'
apply plugin: 'com.bmuschko.tomcat'
apply plugin: 'eclipse-wtp'
```

```
sourceCompatibility = 1.8
targetCompatibility = 1.8
```

```
repositories {
    jcenter()
}
```

```
dependencies {
```

```
providedCompile 'javax.servlet:javax.servlet-api:3.1.0'
compile 'org.springframework:spring-webmvc:5.1.8.RELEASE'
compile 'com.fasterxml.jackson.core:jackson-databind:2.9.5'
runtime 'javax.servlet:jstl:1.2'

def tomcatVersion = '8.0.53'

tomcat "org.apache.tomcat.embed:tomcat-embed-core:${tomcatVersion}",
      "org.apache.tomcat.embed:tomcat-embed-logging-
juli:${tomcatVersion}",
      "org.apache.tomcat.embed:tomcat-embed-jasper:${tomcatVersion}"
}
buildscript {

    repositories {
        jcenter()
    }

    dependencies {
        classpath 'com.bmuschko:gradle-tomcat-plugin:2.5'
    }
}
```

AppInit.java

```
package com.app.init;

import org.springframework.web.servlet.support.AbstractAnnotationConfigDispatcher
ServletInitializer;

import com.app.config.AppConfig;

public class AppInit extends
AbstractAnnotationConfigDispatcherServletInitializer {

    @Override
    protected Class<?>[] getRootConfigClasses() {
```

```
        return null;
    }

    @Override
    protected Class<?>[] getServletConfigClasses() {
        return new Class[] {AppConfig.class};
    }

    @Override
    protected String[] getServletMappings() {
        return new String[] {"/"};
    }
}
```

AppConfig.java

```
package com.app.config;

import org.springframework.context.annotation.ComponentScan;
import org.springframework.context.annotation.Configuration;
import org.springframework.web.servlet.config.annotation.EnableWebMvc;

@Configuration
@ComponentScan("com.app")
@EnableWebMvc
public class AppConfig {

}
```

RestController

```
package com.app.rest;

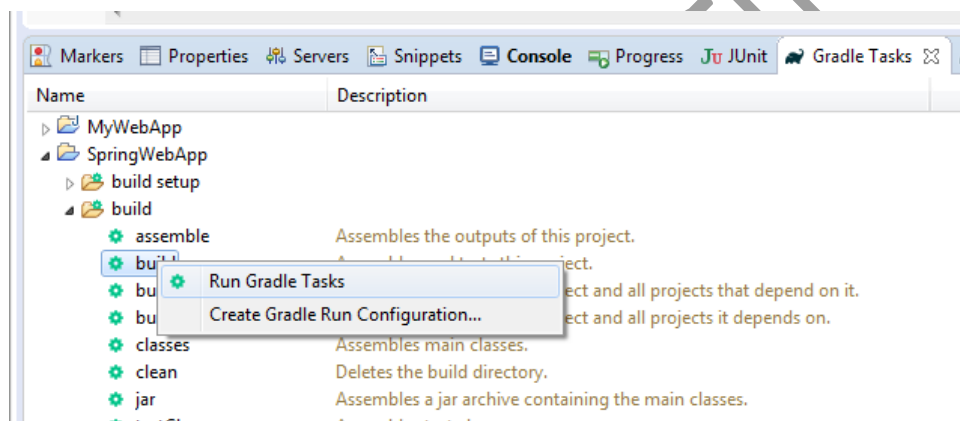
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RestController;
```

```
@RestController
@RequestMapping("/emp")
public class EmpController {

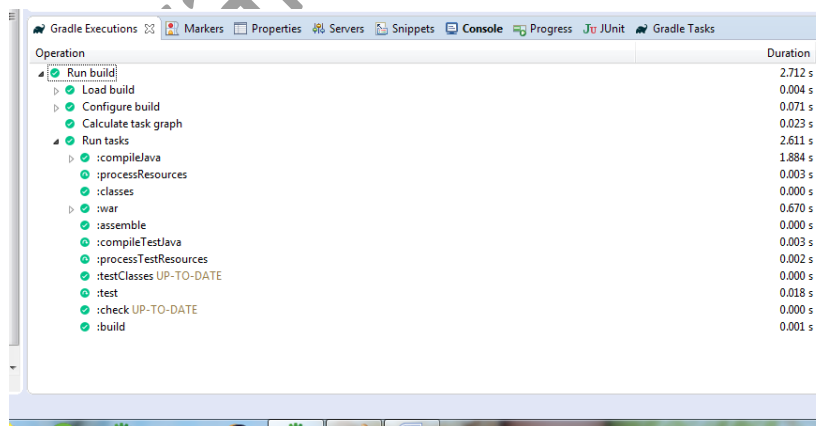
    @GetMapping("/msg")
    public String show() {
        return "Hello R-APP";
    }
}
```

> Refresh Project

STEP#3 RUN GRADLE TASK

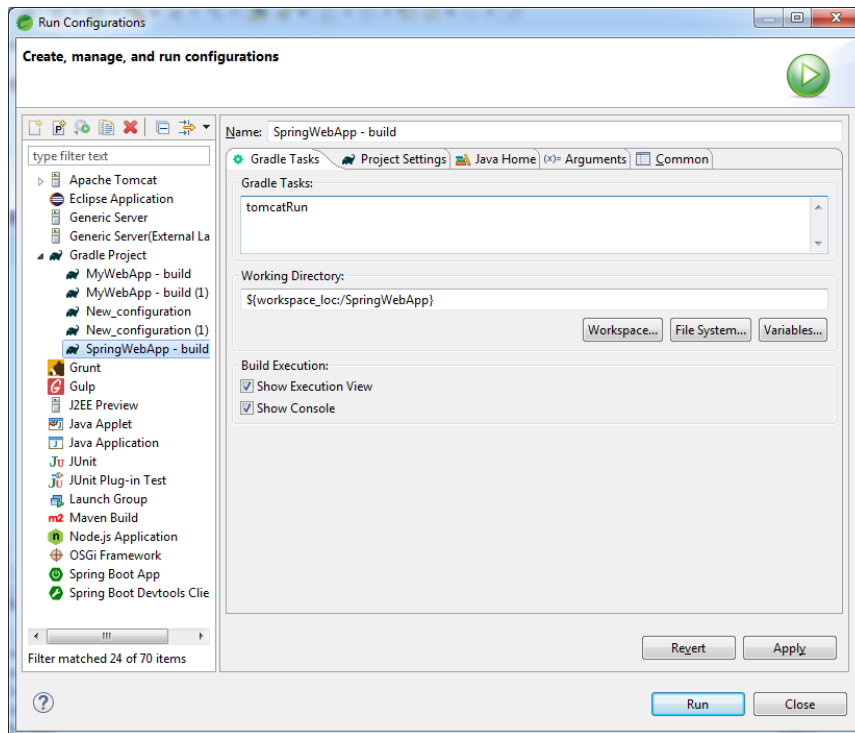


> See Success Message Here



STEP#4 RUN APPLICATION IN TOMCAT

> Right click on Project > Run As > enter tomcatRun > Apply and Run



STEP#5 ENTER URL IN BROWSER

<http://localhost:8080/SpringWebApp/emp/msg>

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<https://www.facebook.com/groups/thejavatemplate/>