



How to Run Spring Boot Application?

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Spring Boot is built on the top of the spring and contains all the features of spring. And is becoming a favorite of developers these days because of its rapid production-ready environment which enables the developers to directly focus on the logic instead of struggling with the configuration and setup. Spring Boot is a microservice-based framework and making a production-ready application in it takes very little time.

Following are some of the features of Spring Boot:

- It allows avoiding heavy configuration of XML which is present in spring
- It provides easy maintenance and creation of REST endpoints
- It includes embedded Tomcat-server
- Deployment is very easy, war and jar files can be easily deployed in the tomcat server

For more information please refer to this article: [Introduction to Spring Boot](#)

Generally, to develop a Spring Boot Application we choose **Eclipse, Spring Tool Suite, and IntelliJ IDEA** IDE. So in this article, we are going to run our application in these 3 IDEs.

Run Spring Boot Application in Eclipse IDE

The Eclipse IDE is famous for the Java Integrated Development Environment (IDE), but it has a number of pretty cool IDEs, including the C/C++ IDE, JavaScript/TypeScript IDE, PHP IDE, and more.



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Got It !

Step by Step Implementation:

1. Create and set up Spring Boot project.
2. Add the spring-web dependency in your [pom.xml](#) file.
3. Create one package and name the package as “controller”
4. Run the Spring Boot application

Step 1: Create and Setup Spring Boot Project in Eclipse IDE

One should know how to [create and set up Spring Boot Project in Eclipse IDE](#) and create your first Spring Boot Application in **Eclipse IDE**.

Step 2: Add the spring-web dependency in your [pom.xml](#) file. Go to the pom.xml file inside your project and add the following spring-web dependency.

XML

```
<dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-web</artifactId>
</dependency>
```

Step 3: In your project create one package and name the package as “controller”. In the controller package create a class and name it as **DemoController**. Below is the code for the **DemoController.java** file.

Java

```
package com.example.demo.controller;

import org.springframework.stereotype.Controller;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.ResponseBody;

@Controller
public class DemoController {

    @RequestMapping("/hello")
    @ResponseBody
    public String helloWorld()
    {
        return "Hello World!";
    }
}
```

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We have used the below annotations in our controller layer. Here in this example, the URI path is **/hello**.

- **@Controller:** This is used to specify the controller.
- **@RequestMapping:** This is used to map to the Spring MVC controller method.
- **@ResponseBody:** Used to bind the HTTP response body with a domain object in the return type.

Now, our controller is ready. Let's run our application inside the **DemoApplication.java** file. There is no need to change anything inside the **DemoApplication.java** file.

Java

```
package com.example.demo;

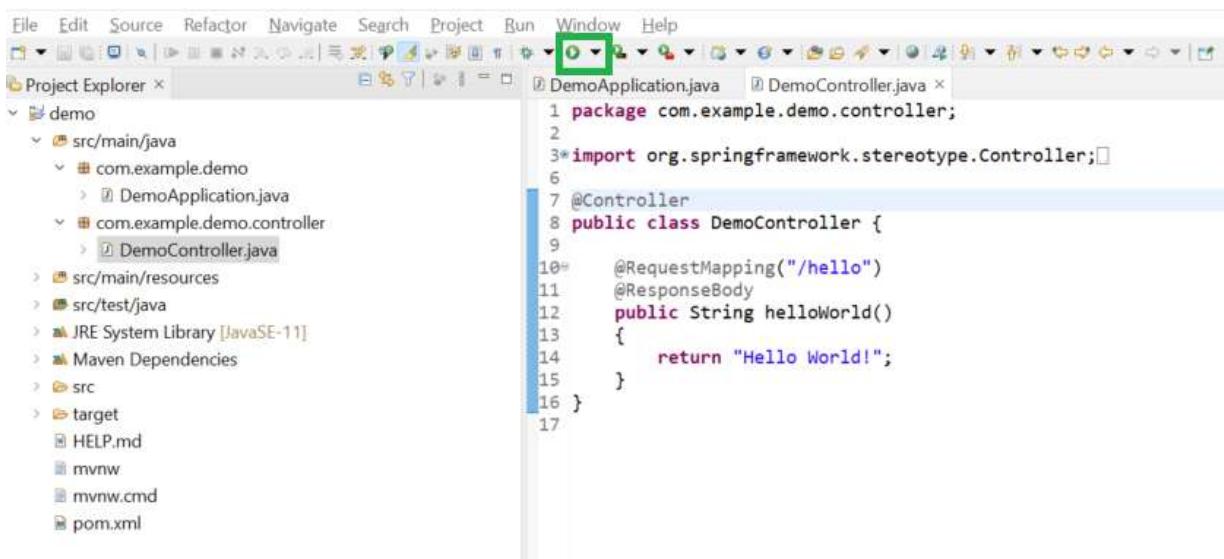
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication
public class DemoApplication {

    public static void main(String[] args) {
        SpringApplication.run(DemoApplication.class, args);
    }
}
```

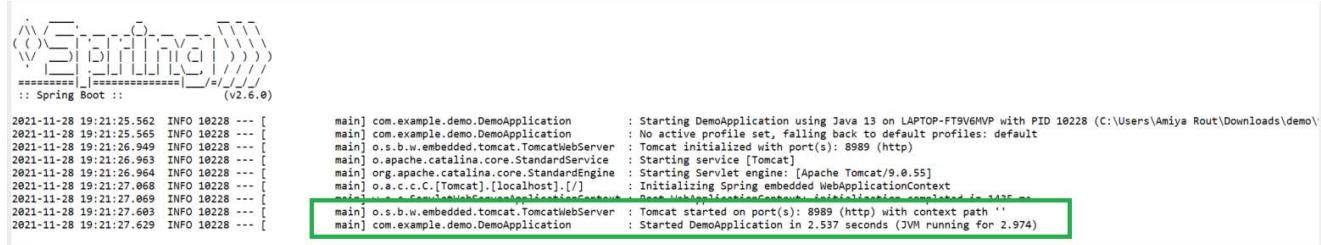
Step 4: Run the Spring Boot Application

To run the application click on the **green icon** as seen in the below image.



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After successfully running the application you can see the console as shown in the below image. Your Tomcat server started on port **8989**.



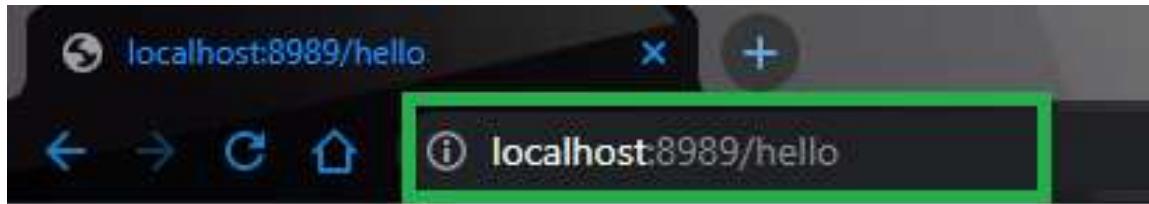
```

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  ( )- [ ]- [ ]- [ ]- [ ]- [ ]- [ ]- [ ]- [ ]
  :: Spring Boot ::      (v2.6.0)

2021-11-28 19:21:25.562  INFO 10228 --- [           main] com.example.demo.DemoApplication      : Starting DemoApplication using Java 13 on LAPTOP-FT9V6MVP with PID 10228 (C:\Users\Amiya Rout\Downloads\demo)
2021-11-28 19:21:25.565  INFO 10228 --- [           main] com.example.demo.DemoApplication      : No active profile set, falling back to default profiles: default
2021-11-28 19:21:25.569  INFO 10228 --- [           main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8989 (http)
2021-11-28 19:21:26.953  INFO 10228 --- [           main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2021-11-28 19:21:26.964  INFO 10228 --- [           main] o.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/9.0.55]
2021-11-28 19:21:27.064  INFO 10228 --- [           main] o.a.c.c.C.[Tomcat].[localhost].[]    : Initializing Spring embedded WebApplicationContext
2021-11-28 19:21:27.065  INFO 10228 --- [           main] o.a.c.c.C.[Tomcat].[localhost].[]    : Context initialization failed
2021-11-28 19:21:27.603  INFO 10228 --- [           main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8989 (http) with context path ''
2021-11-28 19:21:27.629  INFO 10228 --- [           main] com.example.demo.DemoApplication      : Started DemoApplication in 2.537 seconds (JVM running for 2.974)

```

Try this Tomcat URL, which is running on <http://localhost:8989/hello>



Hello World!

Run Spring Boot Application in IntelliJ IDEA

IntelliJ IDEA is an integrated development environment(IDE) written in Java. It is used for developing computer software. This IDE is developed by Jetbrains and is available as an Apache 2 Licensed community edition and a commercial edition. It is an intelligent, context-aware IDE for working with Java and other JVM languages like Kotlin, Scala, and Groovy on all sorts of applications. Additionally, IntelliJ IDEA Ultimate can help you develop full-stack web applications, thanks to its powerful integrated tools, support for JavaScript and related technologies, and advanced support for popular frameworks like Spring, Spring Boot, Jakarta EE, Micronaut, Quarkus, Helidon. So in this article, we are

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Prerequisite: Download and Install IntelliJ IDEA in your system. Please refer to this article [Step by Step guide to install IntelliJ Idea to Install IntelliJ IDEA in Your System.](#)

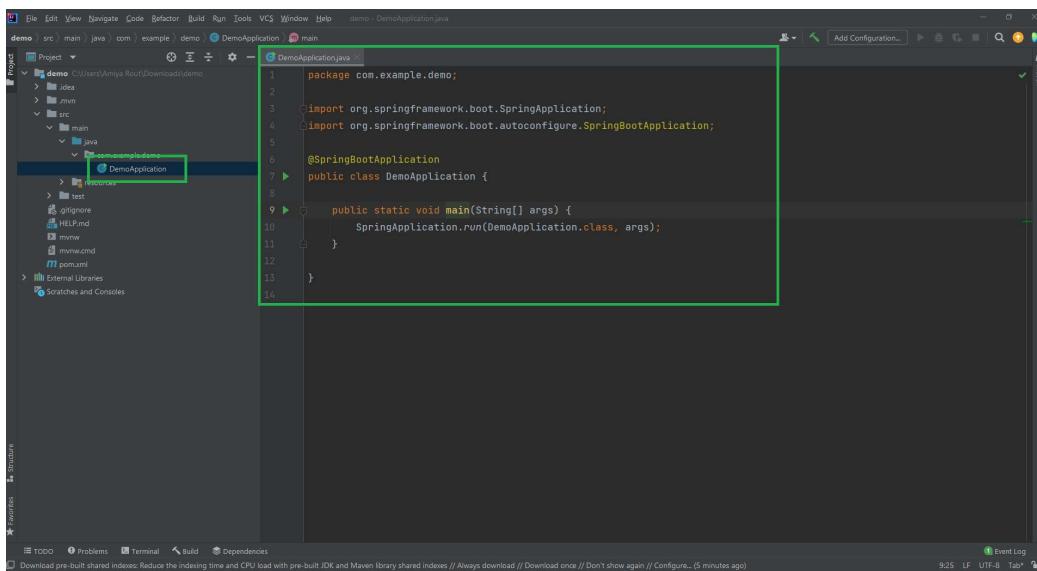
Procedure:

1. Create and Setup Spring Boot Project
2. Creating or importing the spring boot project a file name Application.java
3. Run the Spring Boot Application
4. [Tomcat server](#) will be started.
5. Re-run the application again

Step 1: Create and Setup Spring Boot Project in IntelliJ IDEA

You may refer to this article [How to Create and Setup Spring Boot Project in IntelliJ IDEA](#) and create your first Spring Boot Application in IntelliJ IDEA.

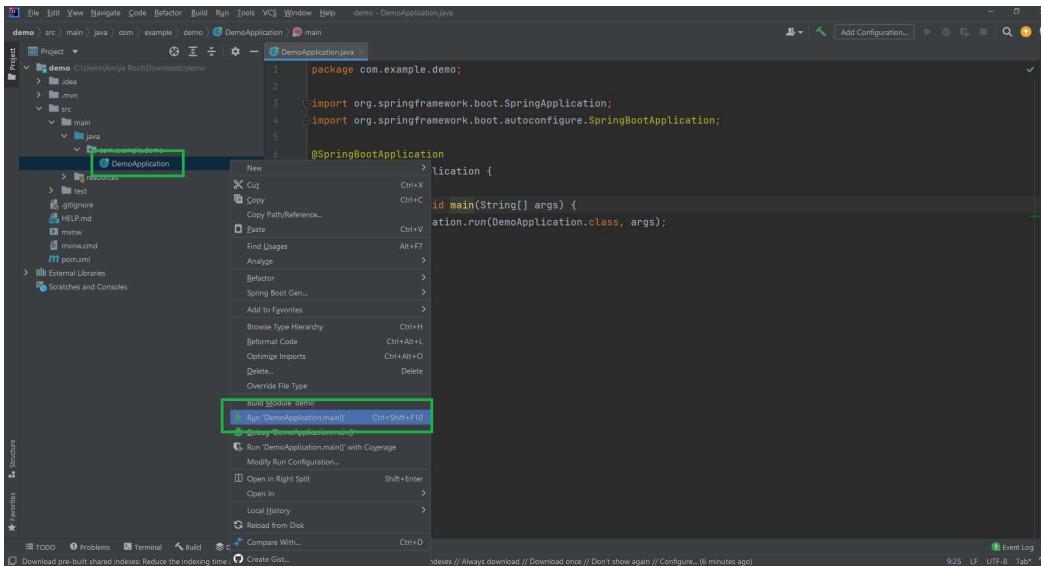
Step 2: After successfully creating or importing the spring boot project a file name **Application.java (Herre DemoApplication)** will be created automatically and this is your entry point. You can consider it as the **main method of a Spring Boot application**.



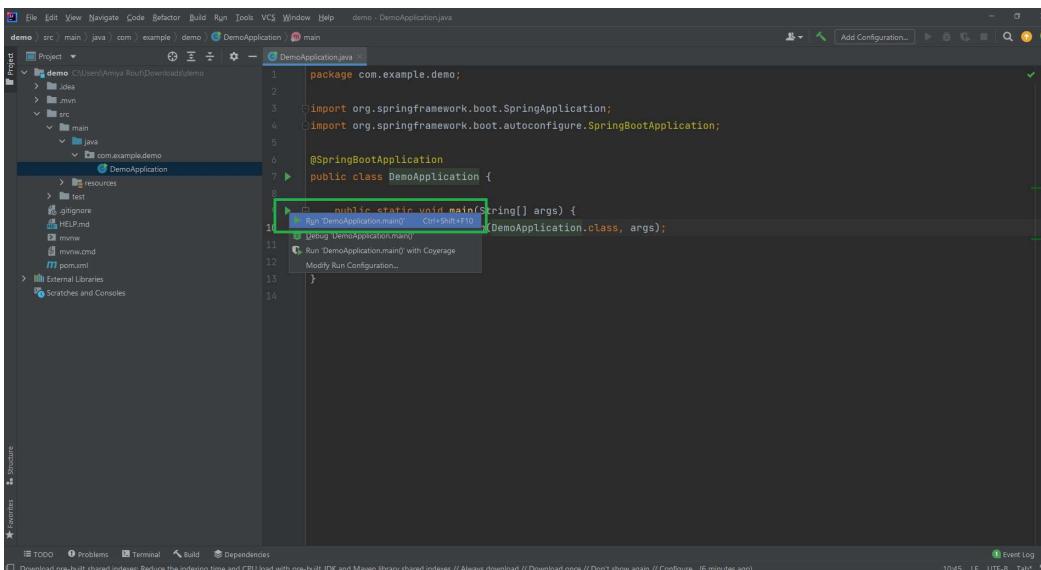
Step 3: Run the Spring Boot Application

Method 1: To run this application now Right-click on the Application.java > Run “DemoApplication.main()” as shown in the below image. or you may type the shortcut key combination (**Ctrl + Shift + F10**) to run the application.

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Method 2: Directly click on the green color triangle button as shown in the below image then choose Run 'DemoApplication.main()'



Step 4: After successfully running the application you can see the console as shown in the below image. Your Tomcat server started on port 8080.

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```

[main] com.example.demo.DemoApplication      : Starting DemoApplication using Java 13 on LAPTOP-FT9V6MVP with PID 9720 [C:\Users\Amiya Rout\Downloads\demo]
[main] com.example.demo.DemoApplication      : No active profile set, falling back to default profiles: default
[main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8080 (http)
[main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
[main] org.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/9.0.55]
[main] o.a.c.c.C.[Tomcat].[localhost].[]       : Initializing Spring embedded WebApplicationContext
[main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 1781 ms
[main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8080 (http) with context path ''
[main] com.example.demo.DemoApplication      : Started DemoApplication in 3.15 seconds (JVM running for 4.241)

```

The default port of the Tomcat server is 8080 and can be changed in the **application.properties** file by using this following line of code.

```
server.port=8989
```

Step 5: Now re-run the application again and you can see Your Tomcat server started on the port that you have given like the below image.

```

server.port=8989

[main] com.example.demo.DemoApplication      : Starting DemoApplication using Java 13 on LAPTOP-FT9V6MVP with PID 17116 (C:\Users\Amiya Rout\Downloads\demo)
[main] com.example.demo.DemoApplication      : No active profile set, falling back to default profiles: default
[main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8989 (http)
[main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
[main] org.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/9.0.55]
[main] o.a.c.c.C.[Tomcat].[localhost].[]       : Initializing Spring embedded WebApplicationContext
[main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 1747 ms
[main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8989 (http) with context path ''
[main] com.example.demo.DemoApplication      : Started DemoApplication in 3.013 seconds (JVM running for 3.528)

```

You can access the output screen in the following URL: <http://localhost:8989>. Note that at last provide your port number.

Run Spring Boot Application in Spring Tool Suite

Spring Tool Suite (STS) is a java IDE tailored for developing Spring-based enterprise applications. It is easier, faster, and more convenient. And most importantly it is based on

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generation of Spring tooling for the favorite coding environment. Largely rebuilt from scratch, it provides world-class support for developing Spring-based enterprise applications, whether you prefer Eclipse, Visual Studio Code, or Theia IDE. So in this article, we are going to discuss how to run your first spring boot application in STS.

Prerequisite: Download and Install Spring Tool Suite (Spring Tools 4 for Eclipse) IDE in your system. You may refer to this article: [How to Download and Install Spring Tool Suite \(Spring Tools 4 for Eclipse\) IDE?](#)

Procedure:

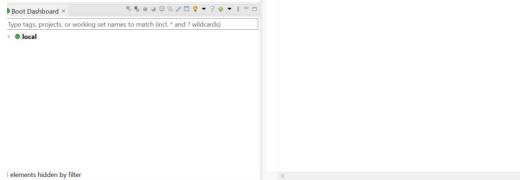
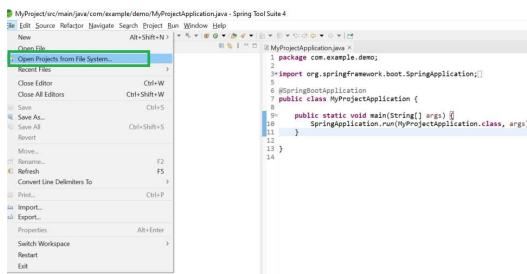
1. Create Spring Boot project in Spring Tool Suite
2. Import the Project into STS IDE
3. An entry file named Application file will be created for STS
4. Run the application on the server.

Step 1: Create Your Spring Boot Project in Spring Tool Suite

You may refer to this article [How to Create and Setup Spring Boot Project in Spring Tool Suite](#) and create your first Spring Boot Application. Or you may [Create Your Spring Boot Project in Spring Initializer](#) and import the project into your STS IDE. Please refer to this article to [Create Spring Boot Project in Spring Initializer](#).

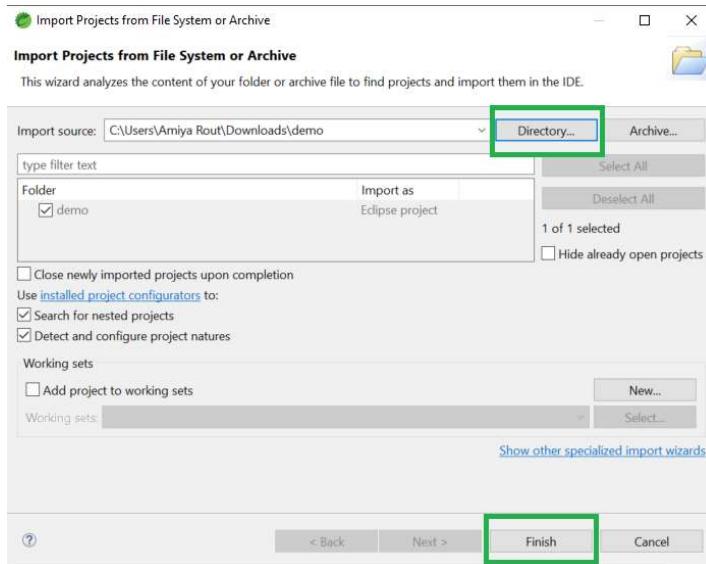
Step 2: How to Import the Project into Your STS IDE?

2.1: Go to your **STS IDE > File > Open Project from File System** as shown in the below image.



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2.2: A pop-up window will occur like the following. Here you have to choose the directory that has been generated while creating the spring boot project in Spring Initializer. And then click on the **Finish** button.

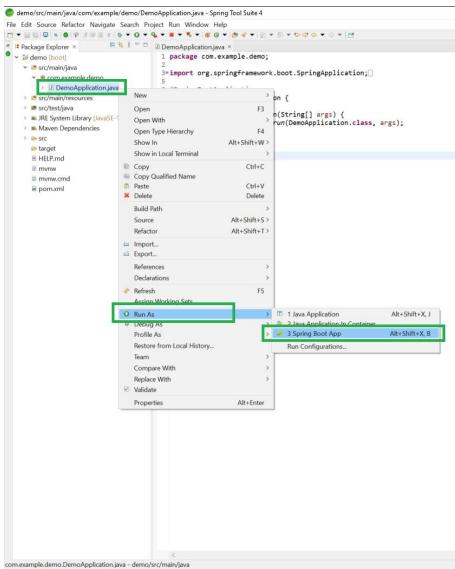


Step 3: After successfully creating or importing the spring boot project a file name **Application.java** (*Herre DemoApplication*) will be created automatically and this is your entry point. You can consider it as the main method of a Spring Boot application.

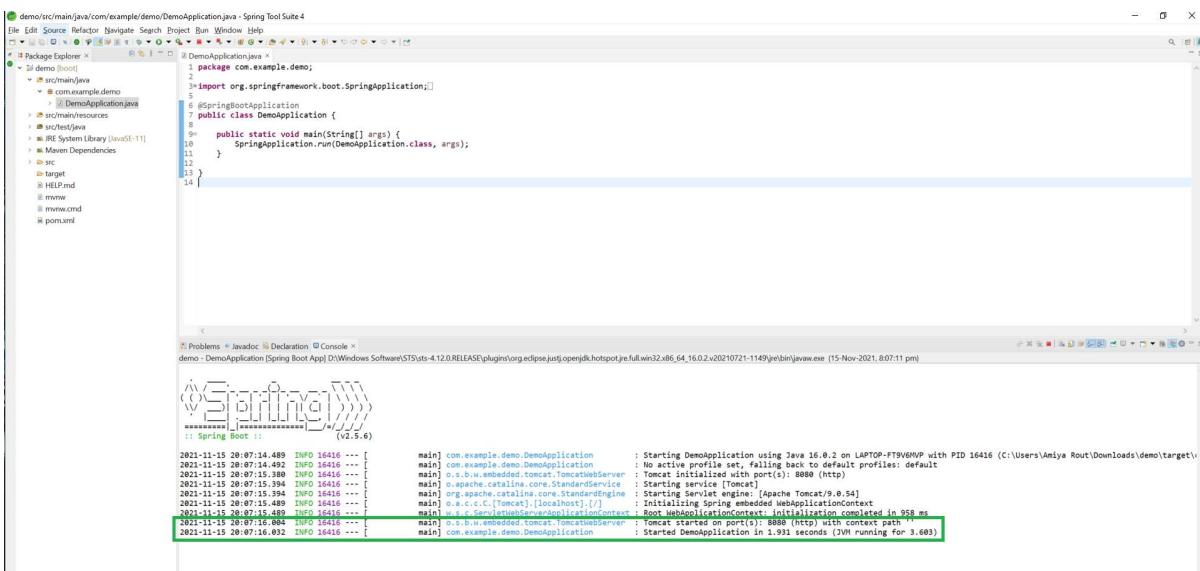


Step 4: In order to run this application now, Right-click on the **Application.java** > **Run As** > **Spring Boot App** as shown in the below image.

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Step 5: After successfully running the application you can see the console where the Tomcat server starts on default port number 8080 as shown in the below image.



now geeks you must be wondering about what if we do not want it to be run on the default port number that is the default port of the Tomcat server is 8080. We can change the port number in the **application.properties** file by using the following line of code as follows:

server.port=8989

A. Now re-run the application again and you can see Your Tomcat server started on the port that you have given like the below image.

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```

2021-11-15 20:37:49.897 INFO 636 --- [           main] com.example.demo.DemoApplication      : Starting DemoApplication using Java 16.0.2 on LAPTOP-FT9V6MVP with PID 636 (C:\Users\Amiya\Rout\Downloads\demo\target\classes)
2021-11-15 20:37:50.591 INFO 636 --- [           main] o.s.b.w.embedded.tomcat.TomcatWebServer : No active profile set, falling back to default profiles: default
2021-11-15 20:37:50.591 INFO 636 --- [           main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8989 (http)
2021-11-15 20:37:50.599 INFO 636 --- [           main] o.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/9.0.54]
2021-11-15 20:37:50.671 INFO 636 --- [           main] o.a.c.c.C.[Tomcat].[localhost].[/]      : Starting service [Tomcat]
2021-11-15 20:37:50.672 INFO 636 --- [           main] w.s.c.ServletWebServerApplicationContext : Initializing Spring embedded WebApplicationContext
2021-11-15 20:37:51.054 INFO 636 --- [           main] o.s.b.w.embedded.tomcat.TomcatWebServer : ContextLoaderListener: context initialization failed
2021-11-15 20:37:51.054 INFO 636 --- [           main] com.example.demo.DemoApplication      : Tomcat started on port(s): 8989 (http) with context path ''
2021-11-15 20:37:51.055 INFO 636 --- [           main] com.example.demo.DemoApplication      : StandardEngine[Tomcat].[localhost].[/] shutdown complete in 4.099 seconds (VM running for 2.6)

```

B. If you are encountered with the following error then it is highly recommended that you should change your port number.

```

2021-11-15 20:44:07.796 INFO 9564 --- [           main] com.example.demo.DemoApplication      : Starting DemoApplication using Java 16.0.2 on LAPTOP-FT9V6MVP with PID 9564 (C:\Users\Amiya\Rout\Downloads\demo\target\classes)
2021-11-15 20:44:08.441 INFO 9564 --- [           main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8989 (http)
2021-11-15 20:44:08.451 INFO 9564 --- [           main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8989 (http)
2021-11-15 20:44:08.468 INFO 9564 --- [           main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8989 (http)
2021-11-15 20:44:08.469 INFO 9564 --- [           main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8989 (http)
2021-11-15 20:44:08.471 INFO 9564 --- [           main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8989 (http)
2021-11-15 20:44:08.472 INFO 9564 --- [           main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8989 (http)
2021-11-15 20:44:08.473 INFO 9564 --- [           main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8989 (http)
2021-11-15 20:44:08.474 INFO 9564 --- [           main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8989 (http)
2021-11-15 20:44:08.475 INFO 9564 --- [           main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8989 (http)
2021-11-15 20:44:08.476 INFO 9564 --- [           main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8989 (http)
2021-11-15 20:44:08.477 INFO 9564 --- [           main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8989 (http)
2021-11-15 20:44:08.478 INFO 9564 --- [           main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8989 (http)
2021-11-15 20:44:08.479 INFO 9564 --- [           main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8989 (http)
2021-11-15 20:44:08.480 INFO 9564 --- [           main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8989 (http)
2021-11-15 20:44:08.481 INFO 9564 --- [           main] ConfigServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 696 ms
2021-11-15 20:44:08.482 INFO 9564 --- [           main] o.apache.catalina.core.StandardService : Exception encountered during context initialization - cancelling refresh attempt: org.springframework.context.ApplicationContextException: Failed to start embedded Tomcat: java.net.BindException: Address already in use: bind
2021-11-15 20:44:08.482 INFO 9564 --- [           main] ConditionEvaluationReportLoggingListener : Stopping service [Tomcat]

Error starting ApplicationContext. To display the conditions report re-run your application with 'debug' enabled.
2021-11-15 20:44:08.850 ERROR 9564 --- [           main] o.s.b.d.LoggingFailureAnalysisReporter : 
*****APPLICATION FAILED TO START*****
*****Description:*****
Web server failed to start. Port 8989 was already in use.
*****Action:*****
Identify and stop the process that's listening on port 8989 or configure this application to listen on another port.

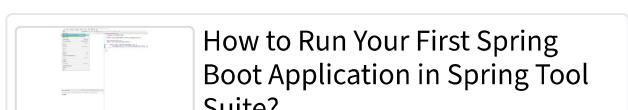
```

You can access the output screen in the following URL: <http://localhost:8080/>. Note that at last provide your port number.

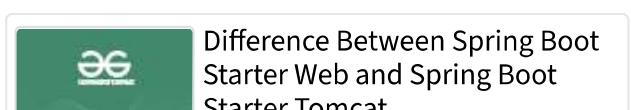
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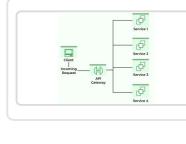
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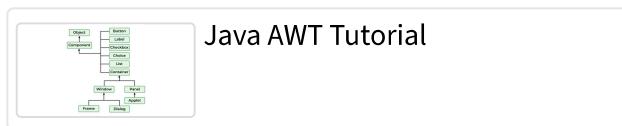


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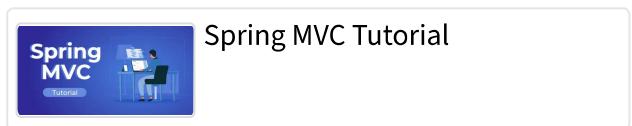


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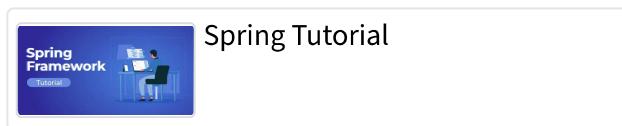
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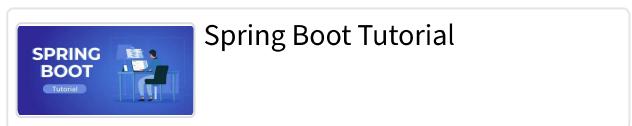
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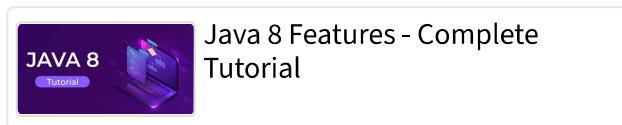
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