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Spring Boot 9AM

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Spring Boot : Environment Setup and First Example

Java : JDK 8 / JDK 11 / JDK 15

(Stable)

<https://www.oracle.com/in/java/technologies/javase/javase-jdk8-downloads.html>

(LTS + Stable)****

<https://www.oracle.com/in/java/technologies/javase-jdk11-downloads.html>

(Latest)

<https://www.oracle.com/in/java/technologies/javase-jdk15-downloads.html>

*) IDE

Eclipse

<https://www.eclipse.org/downloads/packages/release/kepler/sr2/eclipse-ide-java-ee-developers>

STS*** (Spring Tool Suite)

<https://spring.io/tools> (choose one Link based on OS)

IntelliJ Idea

<https://www.jetbrains.com/idea/download/#section=windows>

=====

STS Download and Setup:

#1 Goto Link : <https://spring.io/tools>

#2 Click on Spring Tools 4 for Eclipse (Windows or any)

** It will be download as JAR file

#3 Just click on Keep button and 'Keep Anyway'.

File name : spring-tool-suite-4-4.8.1.RELEASE-e4.17.0-win32.win32.x86_64.self-extracting.jar

#4. Double click on Jar file to extract

Extracted to Folder : sts-4.8.1.RELEASE

#5. Goto folder and double click on : SpringToolSuite4 (ICON)

#6. Enter any folder name (workspace) [or browse for any folder location]

Ex: F:/SpringBoot_9AM_DEC_2020_NEW

#7. Create one Dummy Spring Boot Application

```
> File > New > Spring Starter Project > Next Button > Next Button > Finish
```

```
** wait for few minutes for setup download
```

```
#8. Open main class (DemoApplication.java) and Run code (ctrl+F11)
```

```
> Right click on code > Run As .. > Spring Boot Application
```

```
** Check output at console.
```

```
=====First
Application=====
Step#1 create new Spring Starter Project
```

```
> File menu
> New > Spring Starter Project
```

```
Enter details:
```

```
Name    : SpringBoot2FirstApp
Group   : in.nareshit.raghu
```

```
Package: in.nareshit.raghu
```

```
> Next Button > Next Button > Finish
```

```
//fully qualified class name + "@ Symbol " + hashCode in HexaDecimal
Format
```

```
*)Note: to get imports in code : ctrl+shift+O (Organize imports)
```

```
Step#2 Create one class under package 'in.nareshit.raghu'.
```

```
> Right click on 'in.nareshit.raghu'
> new > class
> enter name: ex: DatabaseConnection
```

```
--full code----
```

```
package in.nareshit.raghu;
```

```
import org.springframework.beans.factory.annotation.Value;
import org.springframework.stereotype.Component;
```

```
//ctrl+shift+O
```

```
@Component("dbCon")
public class DatabaseConnection {
```

```
    @Value("OracleDriver")
    private String driver;
```

```
    @Value("jdbc:oracle")
    private String url;
```

```
    // Source Menu > Generate ToString > Generate button
```

```

        public String toString() {
            return "DatabaseConnection [driver=" + driver + ",
url=" + url + "]\n";
        }
    }
}
-----

```

#3. Modify starter class

```

package in.nareshit.raghu;

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

@SpringBootApplication
public class SpringBoot2FirstAppApplication {

    public static void main(String[] args) {
        ApplicationContext ac =
SpringApplication.run(SpringBoot2FirstAppApplication.class, args);

        //getBean(object name, classType)
        DatabaseConnection con = ac.getBean("dbCon",
DatabaseConnection.class);

        //print
        System.out.println(con);
        //internal code -> System.out.println(con.toString());

    }

}

```

#4 Run code (Ctrl+F11)

> Right click on main class > Run as .. > Spring Boot Application