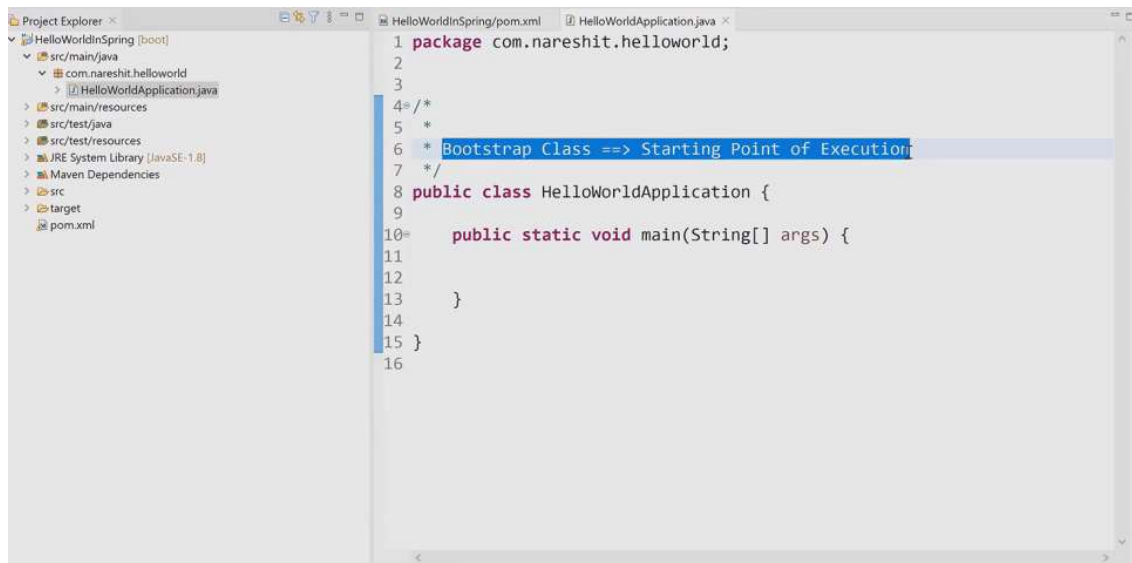


## Bootstarp class

---



|                 |                             |
|-----------------|-----------------------------|
| Bootstrap class | starting point of execution |
|-----------------|-----------------------------|

How to know a class is a bootstrapclass or not ?

- if we write a annotation "@SpringBootApplication"
- A Java class which is having @SpringBootApplication is called as Bootstrap class
- Every Springboot project should have only one bootstrap class.
- Bootstarp --> boot --> booting --> starting --> starting point

what is a annotation?

- A predefined keyword with "@" symbol is called as annotation.

Functionality of Bootstarp class

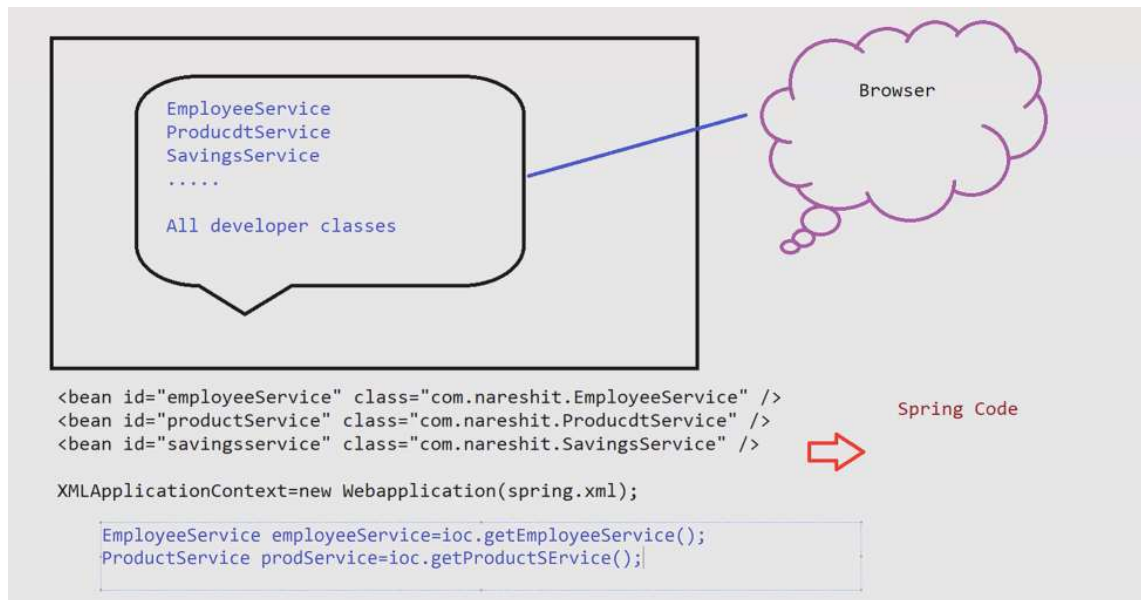
- 1. It will create IoC Container --> Inversion of Control Container.
- 2. It will perform memory management for both the system classes, developer class.
  - management --> creating the object, maintaing the state of the object, destroying the object.
- 3. It will create a web application context

---

web application context

---

- web application will interact with all our developer classes,
- moved to temporary memory location in the web application, so that browser loads that classes
- so these classes should be to do that in spring we write the following

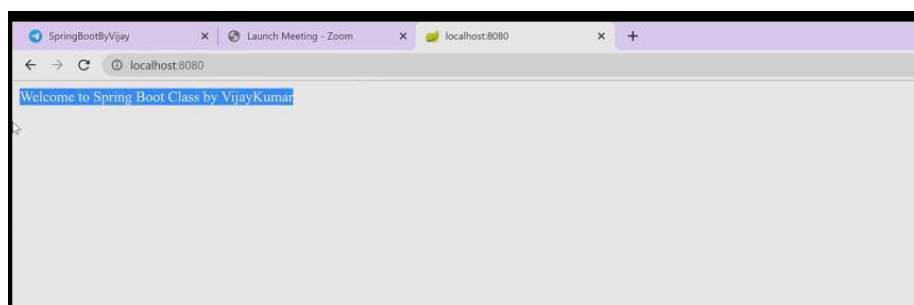
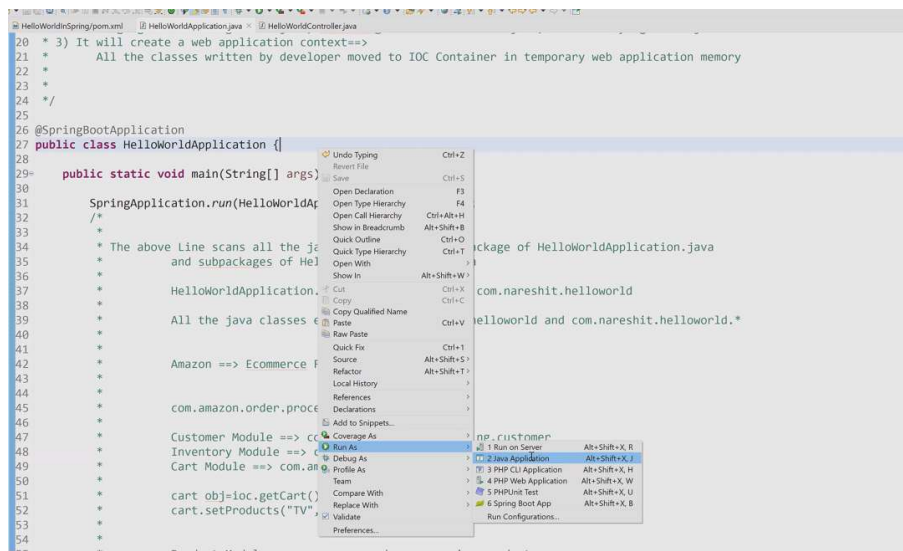


All the classes written by developer moved to IoC Container in temporary web application memory

```
26 @SpringBootApplication
27 public class HelloWorldApplication {
28
29     public static void main(String[] args) {
30
31         SpringApplication.run(HelloWorldApplication.class, args);
32     }
33     /*
34     * The above Line scans all the java classes under the package of HelloWorldApplication.java
35     * and subpackages of HelloWorldApplication.java
36     *
37     * HelloWorldApplication.class ==> Available in com.nareshit.helloworld
38     *
39     * All the java classes exists in com.nareshit.helloworld and com.nareshit.helloworld.*
40     *
41     */
42 }
```

- java classes available under the bootstrap package and bootstrap subpackage and move them to the IoC Container
- if a class outside the bootstrap package, that class is not managed by the IoC Container.

```
1 package com.nareshit.helloworld;
2
3 import org.springframework.web.bind.annotation.RequestMapping;
4 import org.springframework.web.bind.annotation.RestController;
5
6 @RestController
7 public class HelloWorldController {
8
9
10     @RequestMapping(value="/")
11     public String getHelloWorld() {
12         return "Welcome to Spring Boot Class by VijayKumar";
13     }
14
15     //HelloWorldController obj=new HelloWorldController(); ==> @RestController
16     //obj.getHelloWorld(); ==> @RequestMapping(value="/")
17 }
18
```



we didn't create jar/war file,  
 we didn't install the tomcat,  
 we didn't deploy jar files in the tomcat  
 by default all the work is done by the framework