# HOW TO CREATE A SPRING BOOT PROJECT?

* 1. Visit <https://start.spring.io> website
  2. Select gradle or maven as project type
  3. Select java or kotlin as language
  4. Give project name, package name, etc.
  5. Select jar or war package type
  6. Select java version
  7. Select dependencies:
     1. Web
     2. Jasper
     3. Security
     4. Devtools
     5. JPA
     6. MYSQL
  8. Click generate. This will create a zip file of the project
  9. Open this folder with an IDE

# BETTER WAY OF CREATING A PROJECT?

* 1. Open spring tool suit STS IDE
  2. Click new and select spring starter project
  3. Fill required fields mentioned above in point number 1

# HOW TO TEST THE CREATED PROJECT?

* 1. Make sure that the annotation above the Application class is *@SpringBootApplication*
  2. Create a Controller java class
     1. Annotate the class with *@Controller*
     2. Create a public method that returns a string
     3. Annotate this method with @ResponseBody. This will show the returned value on the web page, otherwise no value will be shown on the page.
     4. Annotate the method with @RequestMapping("/test").   
        “/test” could be anything you want.  
        This is required to find this method when we run the server.  
        When we run the server, we will write localhost:portnumber/test to call this method
     5. Save the project and click run spring boot app.
     6. Then the server will start
     7. Look for the post number in the logs
     8. Open a web browser and type localhost:portnumber/test to test the method that we have created. Now the string which we have written in the method shall be visible on the web page.

# HOW TO ADD WEB WIZARD IN STS?

* 1. Click help
  2. Click install new software
  3. Select all websites option from the work with drop-down list
  4. Uncheck hide items that are already installed option
  5. Search “web” word
  6. Select eclipse web developer tools package and install it

# HOW TO ADD JSP IN STS?

* 1. Click help
  2. Select eclipse marketplace option
  3. Search “jsp” word
  4. Install eclipse enterprise java and web developer tools package

# HOW TO RUN JSP ON SERVER?

* 1. Click plain src folder
  2. Click main
  3. Inside that create a folder called webapp
  4. Inside that create a folder called views
  5. Create a jsp file inside this folder
  6. Now open src/main/resource
  7. Click application.properties = here we will define the view resolver
  8. Type following lines:  
     spring.mvc.view.prefix=/views/

spring.mvc.view.suffix=.jsp

* 1. Google embedded jasper maven library. Copy paste that library in pom.xml file under dependencies section. This is important for embedding our jsp file in the browser on our server.
  2. Write some function in controller file. The return value of this function should be the name of our jsp file.   
     For eg. if we have a home.jsp file, then, the return value of the above said function should be return “home”.
  3. The name and path of the function could be anything you want.
  4. Now run start the server and hit this path, your jsp file will be loaded in the browser.