

Kelas : Ekstensi

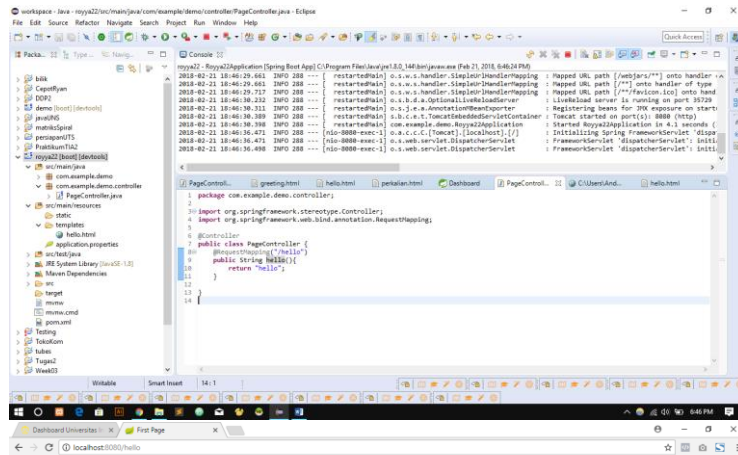
The screenshot shows a Windows desktop environment. In the foreground, there is a Windows taskbar with various application icons. Above the taskbar, a terminal window is open, displaying the output of a Java application. The output shows the application starting up, with logs indicating that the application is running on port 8080. The IDE (IntelliJ IDEA) is open in the background, showing the source code of the application. The code is for a Spring Boot application, specifically the PageController.java file. The code defines a PageController class that implements the Controller interface. The class has a single method, hello(), which returns a String "hello!". The IDE also shows a project structure on the left, including a 'src/main/java' directory and a 'PageController.java' file.

Whitelabel Error Page

This application has no explicit mapping for error, so you are seeing this as a fallback.

Wed Feb 22 18:44:20 ICT 2018
There was an unexpected error (type=Not Found, status=404).
No message available

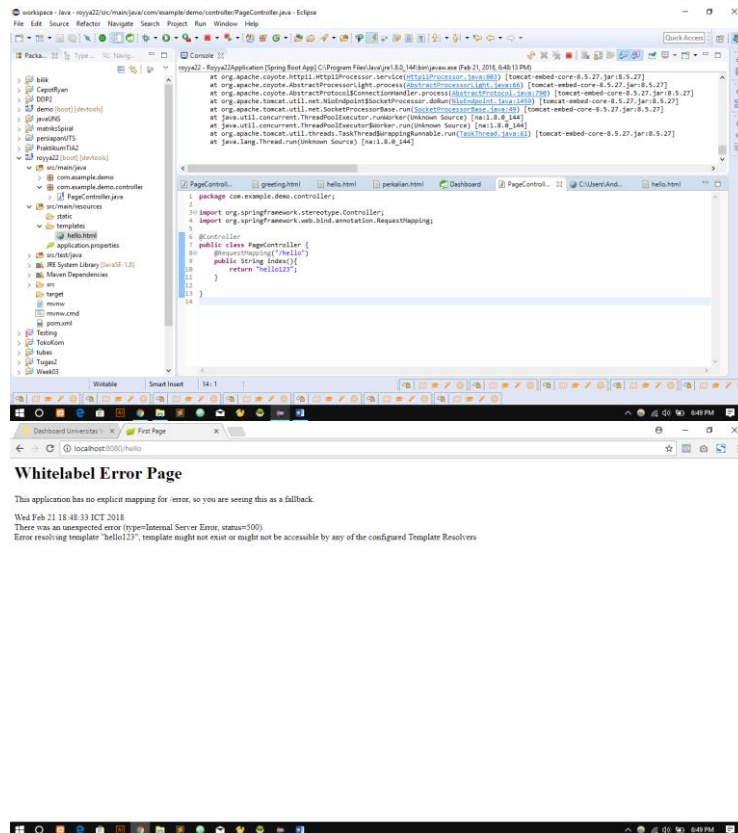
1. Compaile tidak eror, output tetap sama seperti sebelumnya.



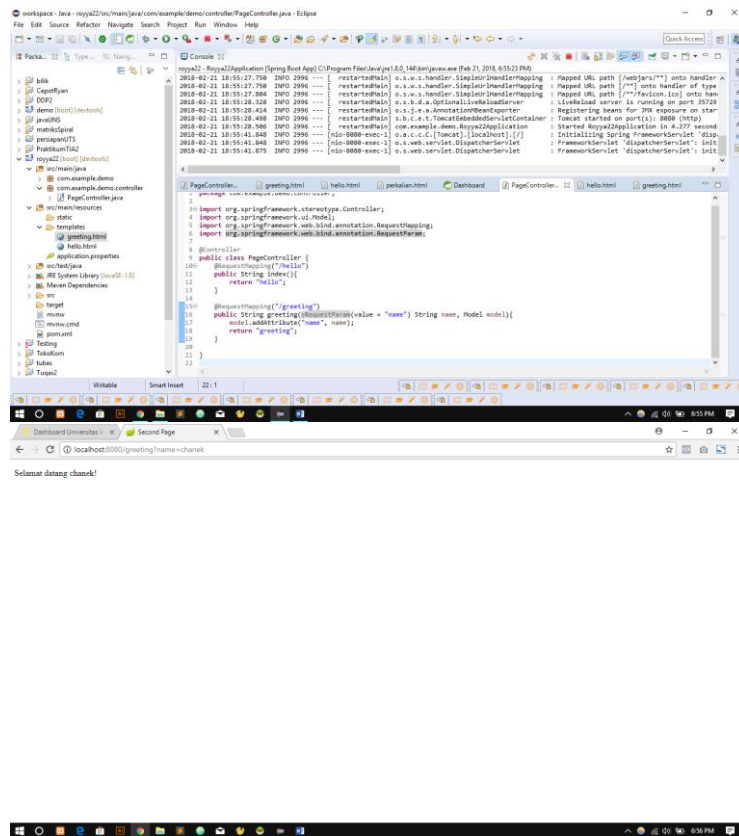
Hello, world!



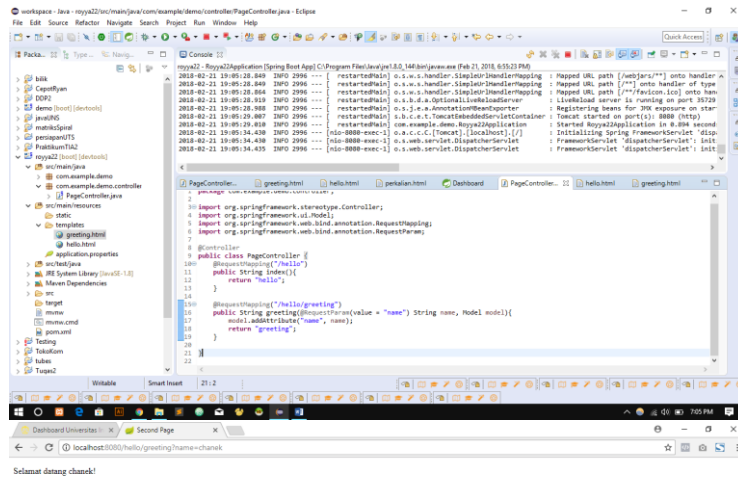
2. Compile pada awalnya tidak eror, tetapi ketiga program dijalankan terdapat eror yang muncul. Return tersebut untuk mengembalikan pada file html.



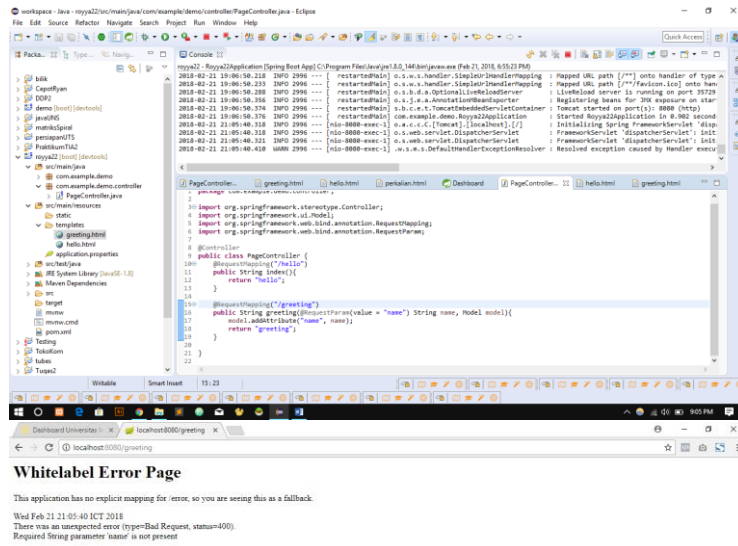
Dibawah ini merupakan kode dan tampilan untuk contoh penggunaan parameter.



1. Program tetap bisa dijalankan.



2. Program error.

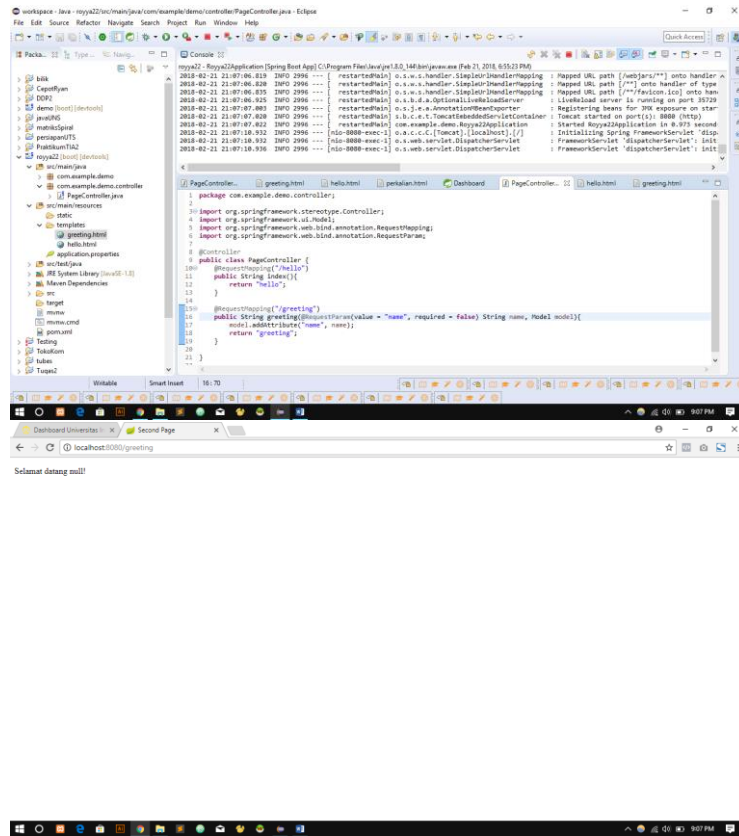


```
royal2 - Royal2Application [Spring Boot App] (C:\Program Files\Java\jre8\bin\java.exe [Feb 21, 2018, 6:55:23 PM])
2018-02-21 19:06:56.118 INFO 2096 --- restartedMain o.s.w.s.handler.SimpleUrlHandlerMapping : Mapped URL path [/]** onto handler of type
2018-02-21 19:06:56.233 INFO 2096 --- restartedMain o.s.w.s.handler.SimpleUrlHandlerMapping : Mapped URL path [/]**/favicon.ico onto han
2018-02-21 19:06:56.388 INFO 2096 --- restartedMain o.s.b.d.a.OptionalLiveReloadServer : LiveReload server is running on port 35729
2018-02-21 19:06:56.392 INFO 2096 --- restartedMain o.s.s.a.AnnotationMethodDispatcher : Registering beans for 396 exposure on star
2018-02-21 19:06:56.374 INFO 2096 --- restartedMain o.s.c.t.TomcatEmbeddedServletContainer : Tomcat started on port(s): 8080 (http
2018-02-21 19:06:56.376 INFO 2096 --- restartedMain com.example.demo.Royal2Application : Started Royal2Application in 8.366 second
2018-02-21 21:05:48.518 INFO 2096 --- main-8080-exec-1 o.s.c.c.[tomcat].[localhost].[] : Initializing Spring FrameworkServlet 'dispa
2018-02-21 21:05:48.518 INFO 2096 --- main-8080-exec-1 o.s.w.s.servlet.DispatcherServlet : FrameworkServlet 'dispatcherServlet': init
2018-02-21 21:05:48.521 INFO 2096 --- main-8080-exec-1 o.s.w.s.servlet.DispatcherServlet : FrameworkServlet 'dispatcherServlet': init
2018-02-21 21:05:48.438 INFO 2096 --- main-8080-exec-1 o.s.w.s.DefaultHandlerExceptionResolver : Resolved exception caused by handler execo

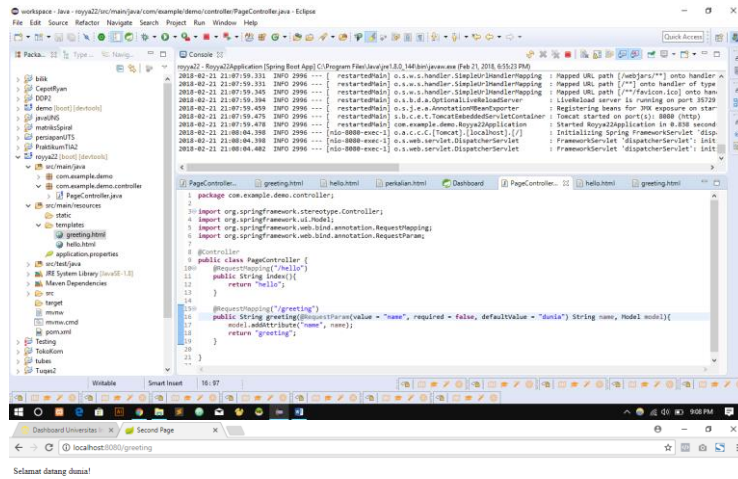
PageController.java:150: NullPointerException
150: public String greeting(@RequestParam(value = "name") String name, Model model){
151:     model.addAttribute("name", name);
152:     return "greeting";
153: }

Whitelabel Error Page
This application has no explicit mapping for error, so you are seeing this as a fallback.
Wed Feb 21 21:05:48 JCT 2018
There was an unexpected error (type=Bad Request, status=400).
Required binding parameter 'name' is not present
```

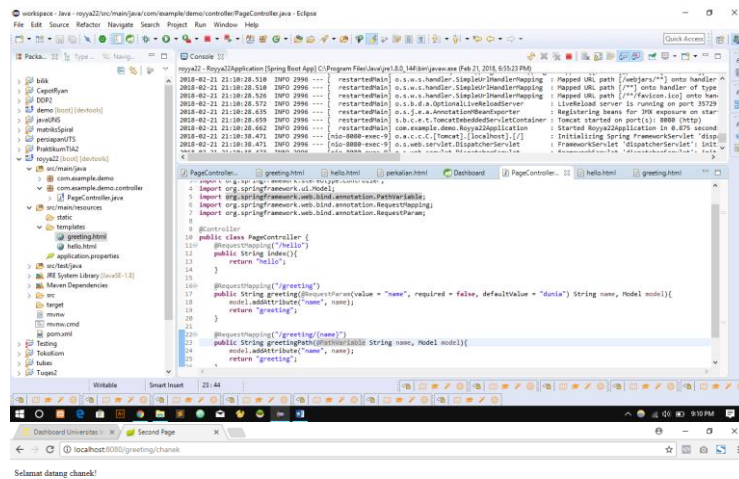
3. Program dijalankan tetapi pada value parameter memunculkan nilai null.



4. Karena tulisan tersebut diganti dengan nilai dari tag <p>



Program menghasilkan output seperti tadi tetapi dengan konsep pengiriman nilai yang berbeda.



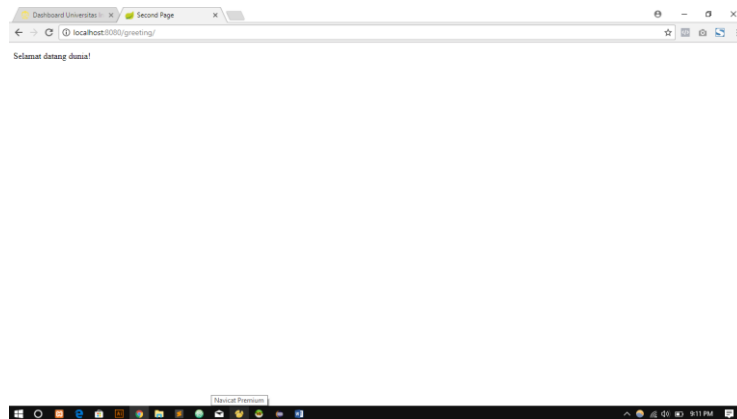
```
royal22 - Royal22Application (Spring Boot App) (C:\Program Files\Java\jdk-8.0.144\bin\java.exe [Feb 21, 2018, 6:55:23 PM])
2018-02-21 21:18:28.518 INFO --- restartedMain o.s.w.s.handler.SimpleUrlHandlerMapping : Mapped URL path [/webjars/**] onto handler
2018-02-21 21:18:28.518 INFO --- restartedMain o.s.w.s.handler.SimpleUrlHandlerMapping : Mapped URL path [/**] onto handler of type
2018-02-21 21:18:28.528 INFO --- restartedMain o.s.w.s.handler.SimpleUrlHandlerMapping : Mapped URL path [/**/favicon.ico] onto han
2018-02-21 21:18:28.572 INFO --- restartedMain o.s.d.a.OptionalLiveReloadServer : LiveReload server is running on port 35729
2018-02-21 21:18:28.635 INFO --- restartedMain o.s.j.a.AnnotationMethodDispatcher : Registering beans for 39M exposure on star
2018-02-21 21:18:28.659 INFO --- restartedMain o.s.b.c.s.TomcatThreadPoolContainer : Tomcat started on port(s) 8080 (http)
2018-02-21 21:18:28.662 INFO --- restartedMain com.example.demo.Royal22Application : Started Royal22Application in 6.875 second
2018-02-21 21:18:38.471 INFO --- nio-8080-exec-9 o.s.a.c.c.[Tomcat].[localhost].[] : Initializing Spring FrameworkServlet 'disp
2018-02-21 21:18:38.471 INFO --- nio-8080-exec-9 o.s.web.servlet.DispatcherServlet : FrameworkServlet 'dispatcherServlet' init
2018-02-21 21:18:38.471 INFO --- nio-8080-exec-9 o.s.web.servlet.DispatcherServlet : FrameworkServlet 'dispatcherServlet' init

PageController.java
1 import org.springframework.stereotype.Controller;
2 import org.springframework.web.bind.annotation.RequestMapping;
3 import org.springframework.web.bind.annotation.RequestMethod;
4 import org.springframework.web.bind.annotation.RequestParam;
5
6
7 @Controller
8
9 public class PageController {
10     @RequestMapping("hello")
11     public String index() {
12         return "Hello!";
13     }
14
15     @RequestMapping("greeting")
16     public String greeting(@RequestParam(value = "name", required = false, defaultValue = "dunia") String name, Model model) {
17         model.addAttribute("name", name);
18         return "greeting";
19     }
20
21     @RequestMapping("greeting/{name}")
22     public String greetingPathVariable(@PathVariable String name, Model model) {
23         model.addAttribute("name", name);
24         return "greeting";
25     }
26 }

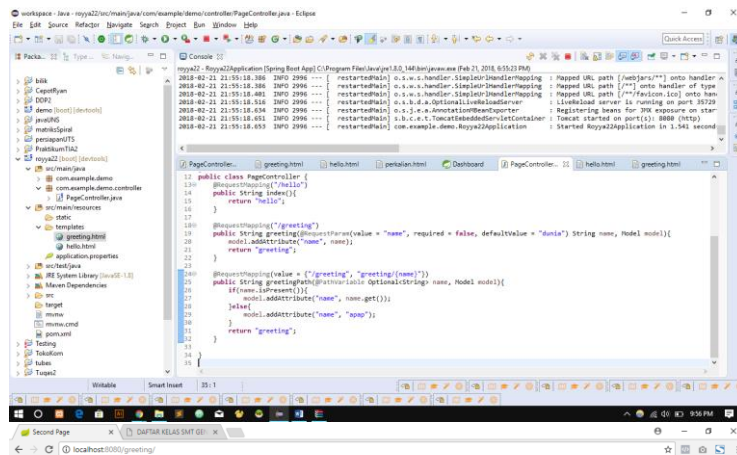
Dashboard Universities: X Second Page
localhost:8080/greeting/chanku
Selamat datang chanku!
```



1. Program menampilkan nilai default ketika tidak ada nilai dari parameter yang dikirimkan.



Program menampilkan error.



Whitelabel Error Page

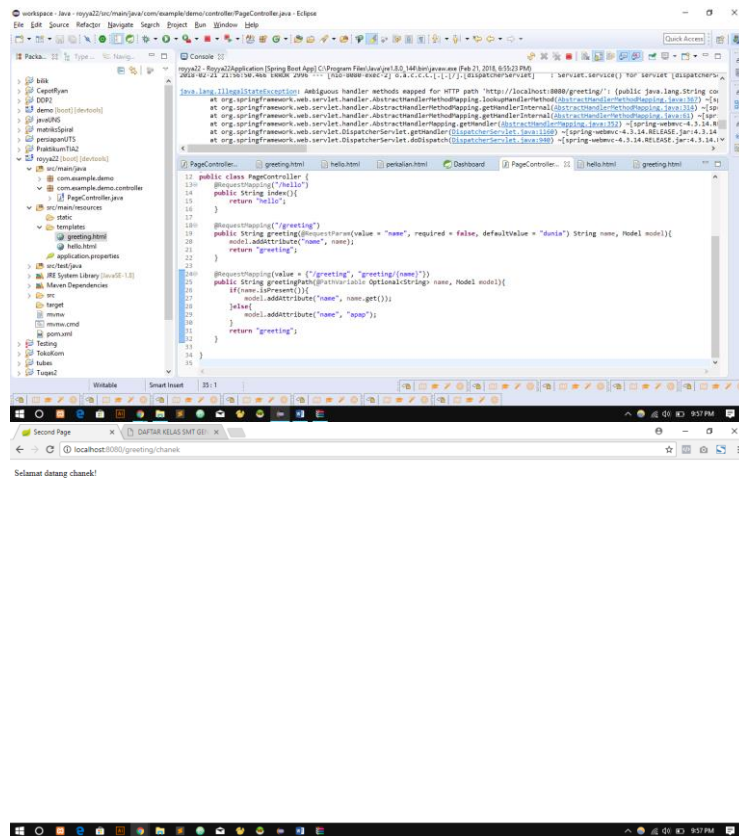
This application has no explicit mapping for error, so you are seeing this as a fallback.

Wed Feb 21 21:56:50 ICT 2018

There was an unexpected error (type=Internal Server Error, status=500).
Annotated handler method mapped to HTTP path: http://localhost:8080/greeting/: [public java.lang.String com.example.demo.controller.PageController.greeting(java.util.Optional<java.lang.String> name, public java.lang.String com.example.demo.controller.PageController.greeting(java.lang.String org.springframework.web.servlet.ModelAndView))]



Program menampilkan output seperti dibawah ini.



Dibawah ini merupakan output dari program latihan yang telah saya buat.

[illegible]

Perkalian

$$10 \times 2 = 20$$

Perkalian

$$10 \times 0 = 0$$

