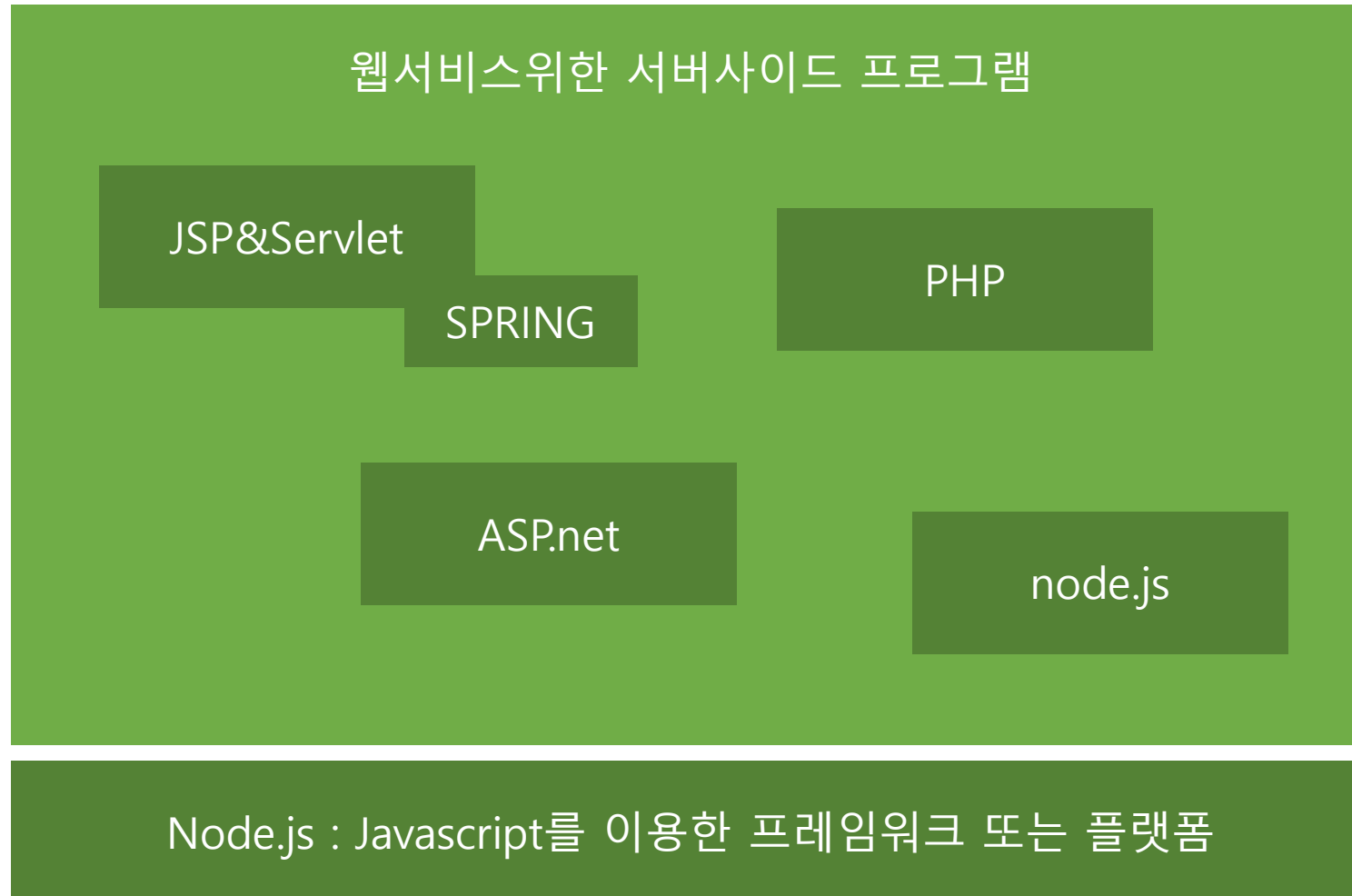


22강_node 개요 및 개발환경 설정

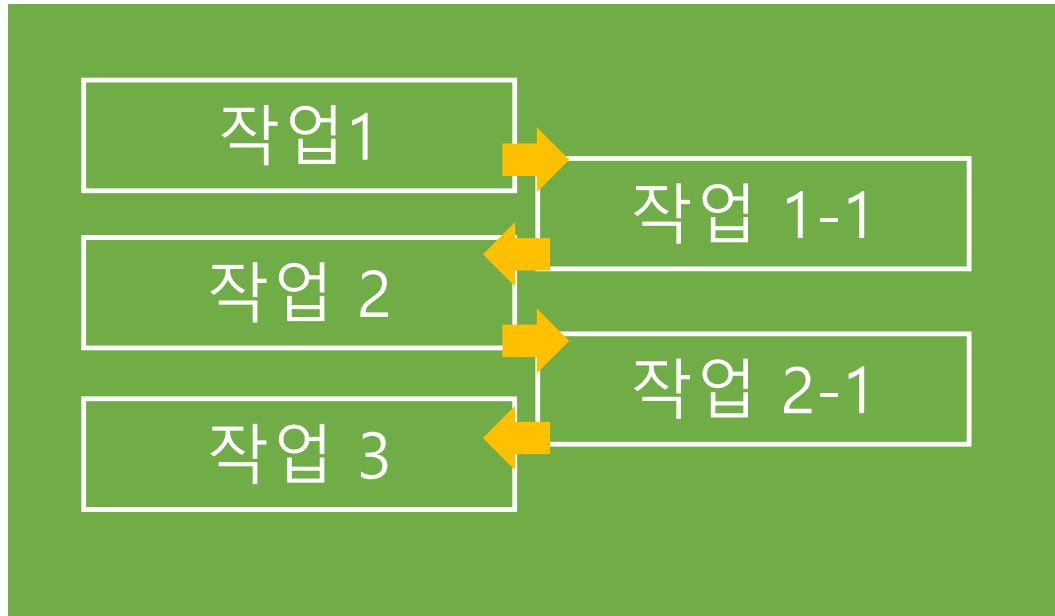
- 22-1 node.js 란
- 22-2 동기식(Blocking)과 비동기식(Non-Blocking)
- 22-3 개발환경 설정
- 22-4 Hello World

22-1 : node.js란?



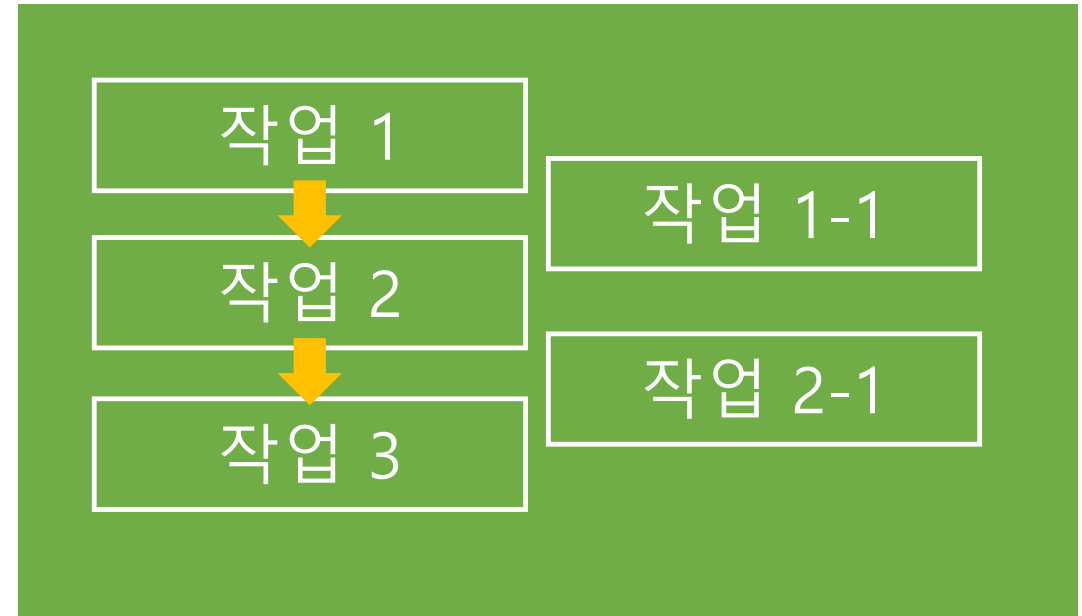
22-2 : 동기식(Blocking)과 비동기식(Non-Blocking)

동기식(Blocking)



작업순서 : 작업 1 > 작업 1-1 > 작업 2 > 작업 2-1 > 작업 3

비동기식(Blocking)



작업순서 : 작업 1 > 작업 2 > 작업 3
(※작업 1-1, 작업 2-1은 별도 진행)

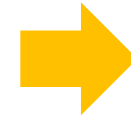
22-3 : 개발환경 설정



<http://www.oracle.com>



<http://www.eclipse.org>



<https://nodejs.org/ko>

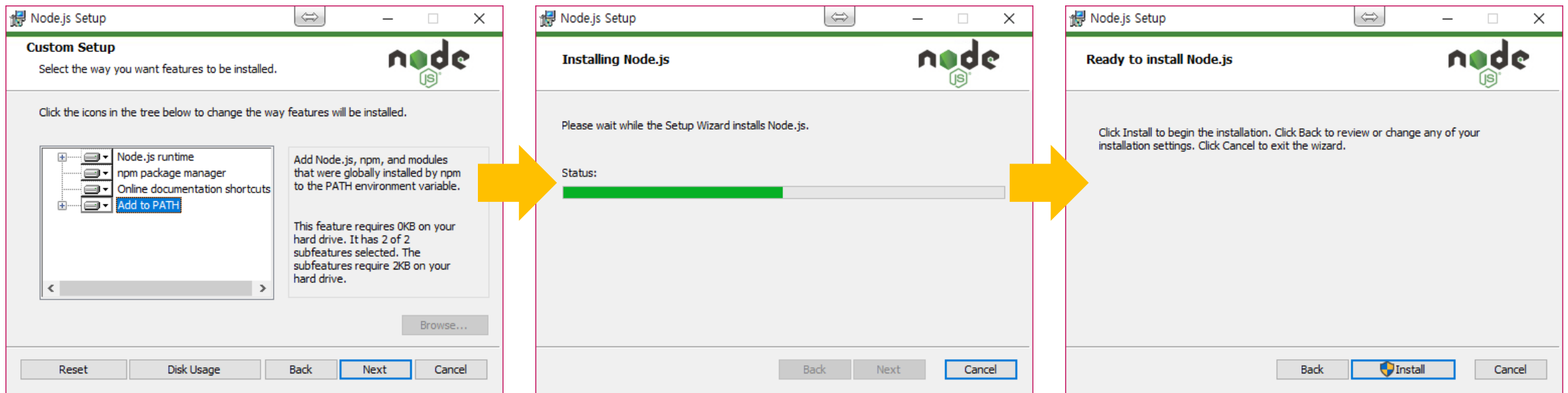
22-3 : 개발환경 설정

node.js설치



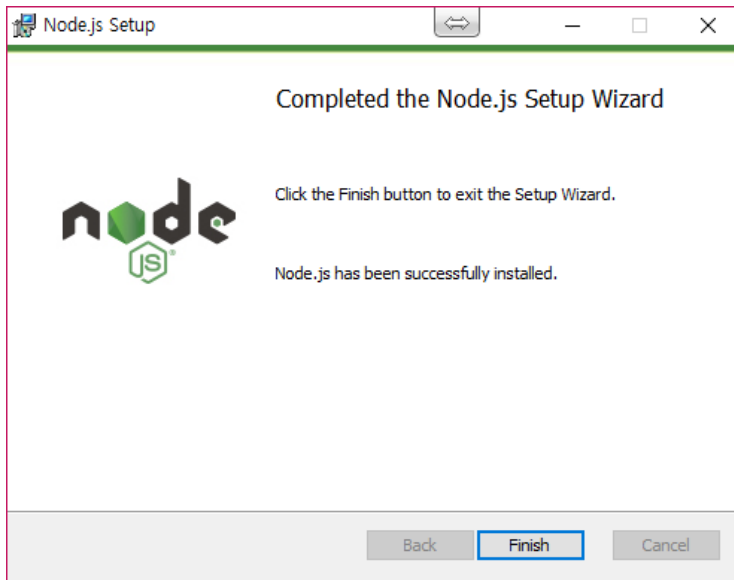
22-3 : 개발환경 설정

node.js설치

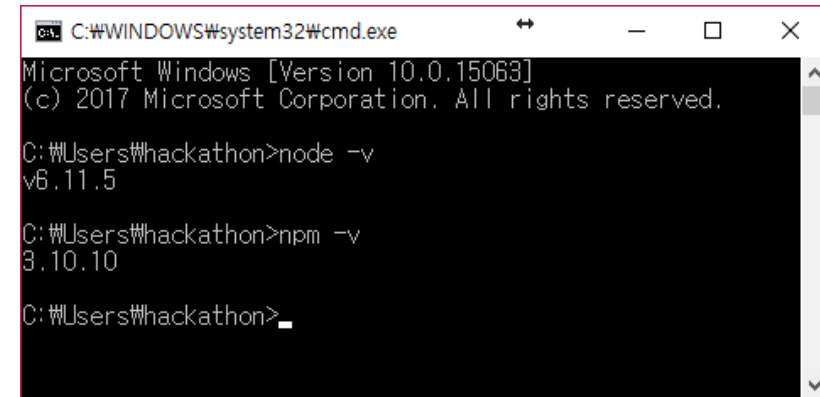


22-3 : 개발환경 설정

node.js설치



node 및 npm 설치 확인



```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows [Version 10.0.15063]
(c) 2017 Microsoft Corporation. All rights reserved.

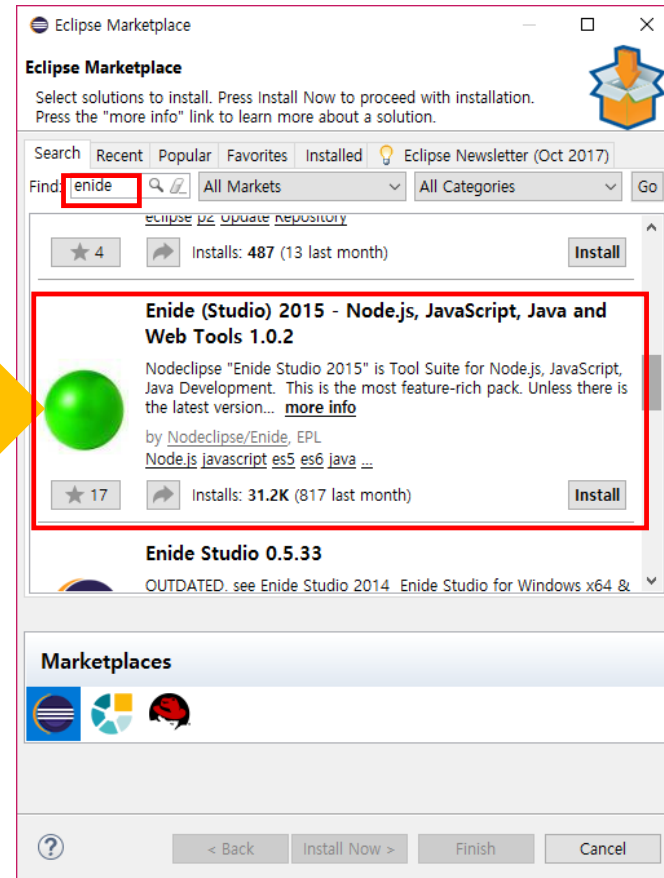
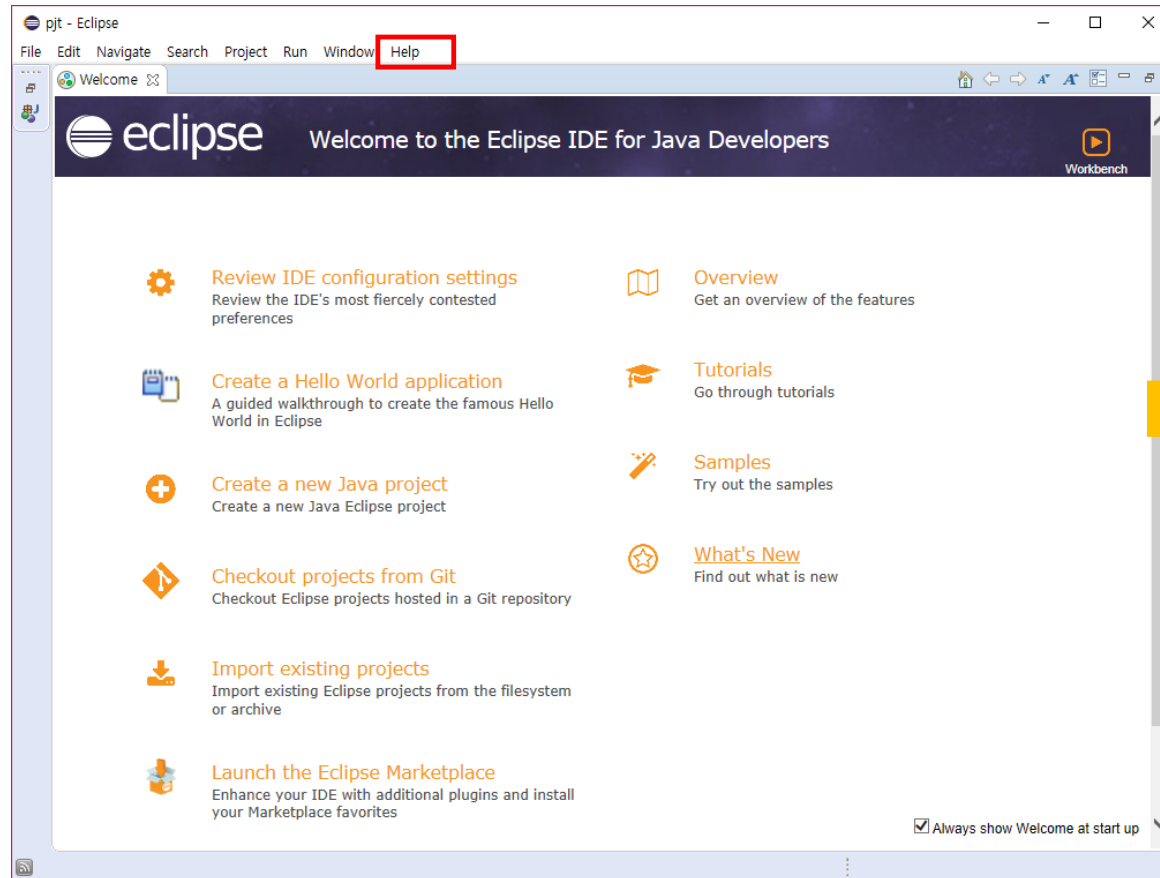
C:\Users\hackathon>node -v
v6.11.5

C:\Users\hackathon>npm -v
3.10.10

C:\Users\hackathon>
```

22-3 : 개발환경 설정

Enide Studio plug-in 설치



22-3 : 개발환경 설정

Enide Studio plug-in 설치

The image displays three sequential screenshots of the Eclipse Marketplace installation wizard for Enide Studio (Studio 2015 - Node.js, JavaScript, Java and Web Tools 1.0.2).

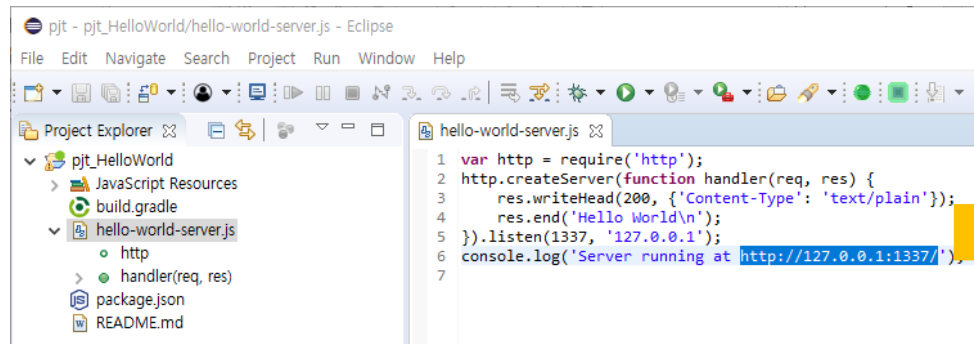
First Screenshot: Confirm Selected Features
 This window shows a list of features to be installed. A yellow arrow points from this window to the second window. The features listed include: Minimalist Gradle Editor (required), Nodeclipse Plugins List (required), AngularJS Eclipse, Ansi Console, Eclipse Color Theme, Eclipse WTP HTML-Web resources, EditBox, Emmet for Eclipse, Enide Gradle, Enide Maven, GFM Viewer feature, JDT Spelling Feature, JSHint Eclipse Integration, Json Tools, Markdown Editor, Mirur Visual Debugger, Nodeclipse Git Addon, Nodeclipse Java 8 Nashorn JJS, Nodeclipse MongoDB Shell Integration, Nodeclipse Node.js .Features Set, Nodeclipse PhantomJS, Nodeclipse Vert.x, RestClient Tool, and StartExplorer Feature.

Second Screenshot: Confirm Selected Features
 This window shows the same list of features, with a yellow arrow pointing from this window to the third window. The 'Confirm' button is highlighted.

Third Screenshot: Review Licenses
 This window displays the license agreements for the selected features. The 'Eclipse Public License' is selected and expanded, showing its terms and conditions. The 'I accept the terms of the license agreements' radio button is selected. The 'Finish' button is highlighted.

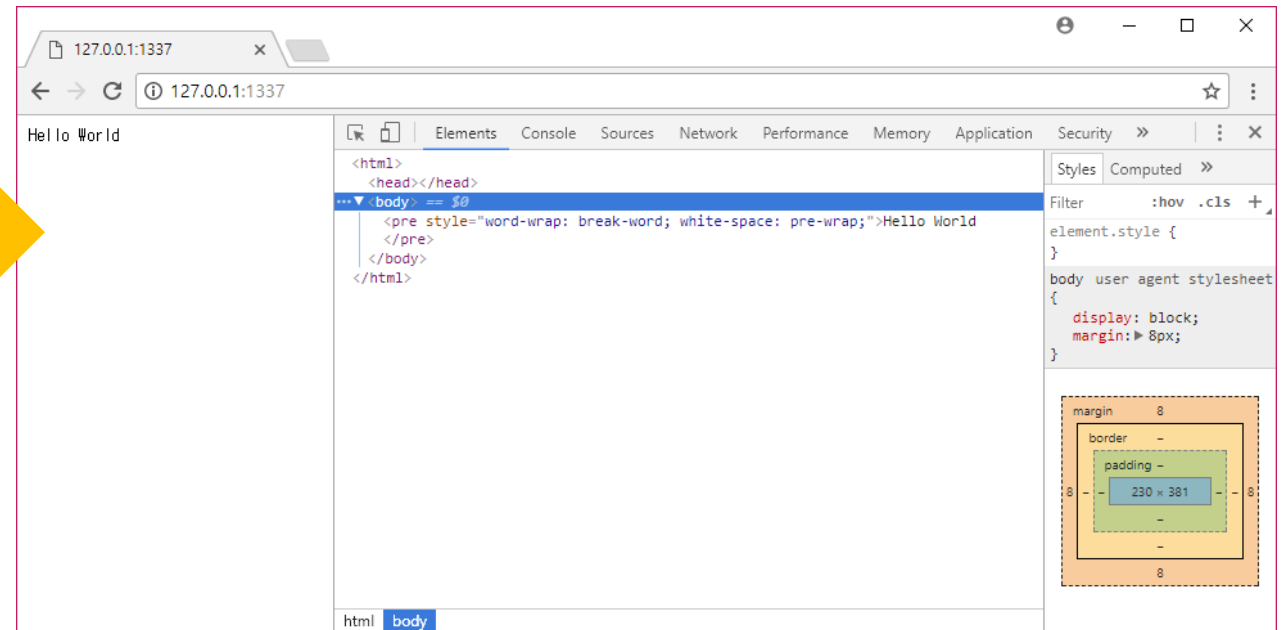
22-4 : Hello World

Ex : pjt_HelloWorld



The screenshot shows the Eclipse IDE with a project named 'pjt_HelloWorld'. The 'Project Explorer' on the left shows the project structure, including 'JavaScript Resources', 'build.gradle', and 'hello-world-server.js'. The 'hello-world-server.js' file is open in the editor, showing the following code:

```
1 var http = require('http');
2 http.createServer(function handler(req, res) {
3   res.writeHead(200, {'Content-Type': 'text/plain'});
4   res.end('Hello World\n');
5 }).listen(1337, '127.0.0.1');
6 console.log('Server running at http://127.0.0.1:1337/');
7
```



The screenshot shows a web browser window with the address bar set to '127.0.0.1:1337'. The browser displays the text 'Hello World'. The 'Elements' panel on the right shows the HTML structure:

```
<html>
<head></head>
<body == $0
  <pre style="word-wrap: break-word; white-space: pre-wrap;">Hello World
</pre>
</body>
</html>
```

The 'Styles' panel on the right shows the default user agent styles for the body element:

```
body user agent stylesheet
{
  display: block;
  margin: 8px;
}
```

A diagram below the styles panel illustrates the box model for the body element, showing a margin of 8px, a border, padding, and a content area of 230 x 381 pixels.