

# JAVA SCRIPT

## 내부 세미나

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VISUAL STUDIO CODE 미리 설치하기!  
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비주얼 스튜디오 코드  
설치하기

크롬 구글 주소창에  
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## Visual Studio Code - Code Editing. Redefined

The image shows the Visual Studio Code website and a code editor interface. The website header includes navigation links: Visual Studio Code, Docs, Updates, Blog, API, Extensions, FAQ, and Learn. A search bar and a 'Download' button are also present. A banner for 'Version 1.78' is displayed. The main content area features the text 'Code editing. Redefined.' and 'Free. Built on open source. Runs everywhere.' Below this is a 'Download for Windows' button with a dropdown arrow, and a link to 'Web, Insiders edition, or other platforms'. A disclaimer states: 'By using VS Code, you agree to its license and privacy statement.'

The code editor interface shows the 'EXTENSIONS: MARKETPLACE' sidebar with a list of extensions including Python, GitLens, C/C++, ESLint, Debugger for Chrome, Language Support for Java, vscode-icons, and Vetur. The main editor area displays a JavaScript file named 'serviceWorker.js' with the following code:

```
src > JS serviceWorker.js > register > window.addEventListener('load') callback
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60
function registerValidSW(swUrl, config) {
  navigator.serviceWorker
    .register(swUrl)
    .then(registration => {
      checkValidServiceWorker(swUrl, config);
      // Add some additional logging to localhost, p
      // service worker/PWA documentation.
      navigator.serviceWorker.ready.then(() => {
        product
        productSub
        removeSiteSpecificTrackingException
        removeWebWideTrackingException
        requestMediaKeySystemAccess
        sendBeacon
        serviceWorker (property) Navigator.serviceWorke...
        storage
        storeSiteSpecificTrackingException
        storeWebWideTrackingException
        userAgent
        vendor
      })
    })
}
```

The terminal at the bottom shows the command '1: node' and the message 'You can now view create-react-app in the browser.' The local address bar indicates 'http://localhost:3000/'.

비주얼 스튜디오 코드  
설치하기

크롬 구글 주소창에  
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## Visual Studio Code - Code Editing. Redefined

The image shows the Visual Studio Code website and a screenshot of the application interface. A red arrow points from the 'Download' button on the website to the 'Download' button in the application's top right corner.

**Visual Studio Code Website:**

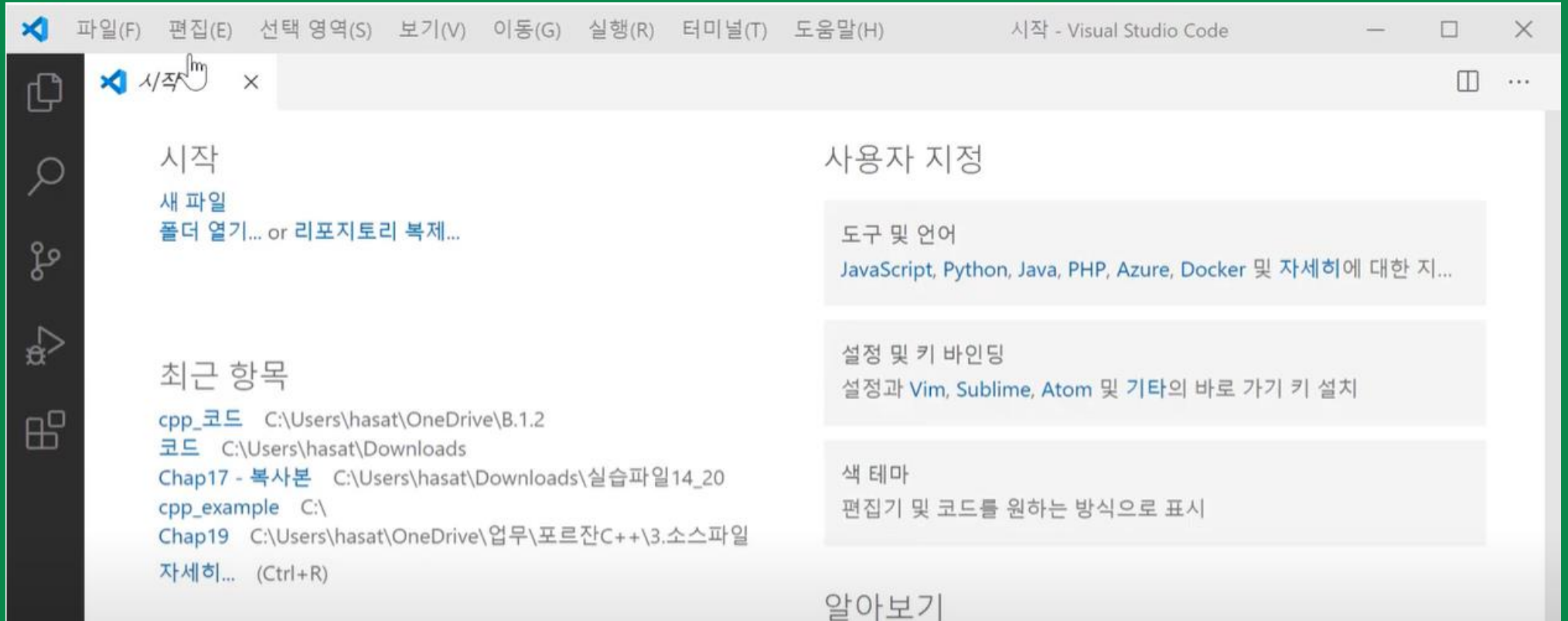
- URL: <https://code.visualstudio.com>
- Navigation: Visual Studio Code, Docs, Updates, Blog, API, Extensions, FAQ, Learn
- Search: Search Docs
- Download Button: [Download](#)
- Message: [Version 1.78](#) is now available! Read about the new features and fixes from April.
- Header: Code editing. Redefined.
- Text: Free. Built on open source. Runs everywhere.
- Buttons: [Download for Windows](#) (Stable Build), [Web](#), [Insiders edition](#), or [other platforms](#)
- Text: By using VS Code, you agree to its [license and privacy statement](#).

**Visual Studio Code Application Screenshot:**

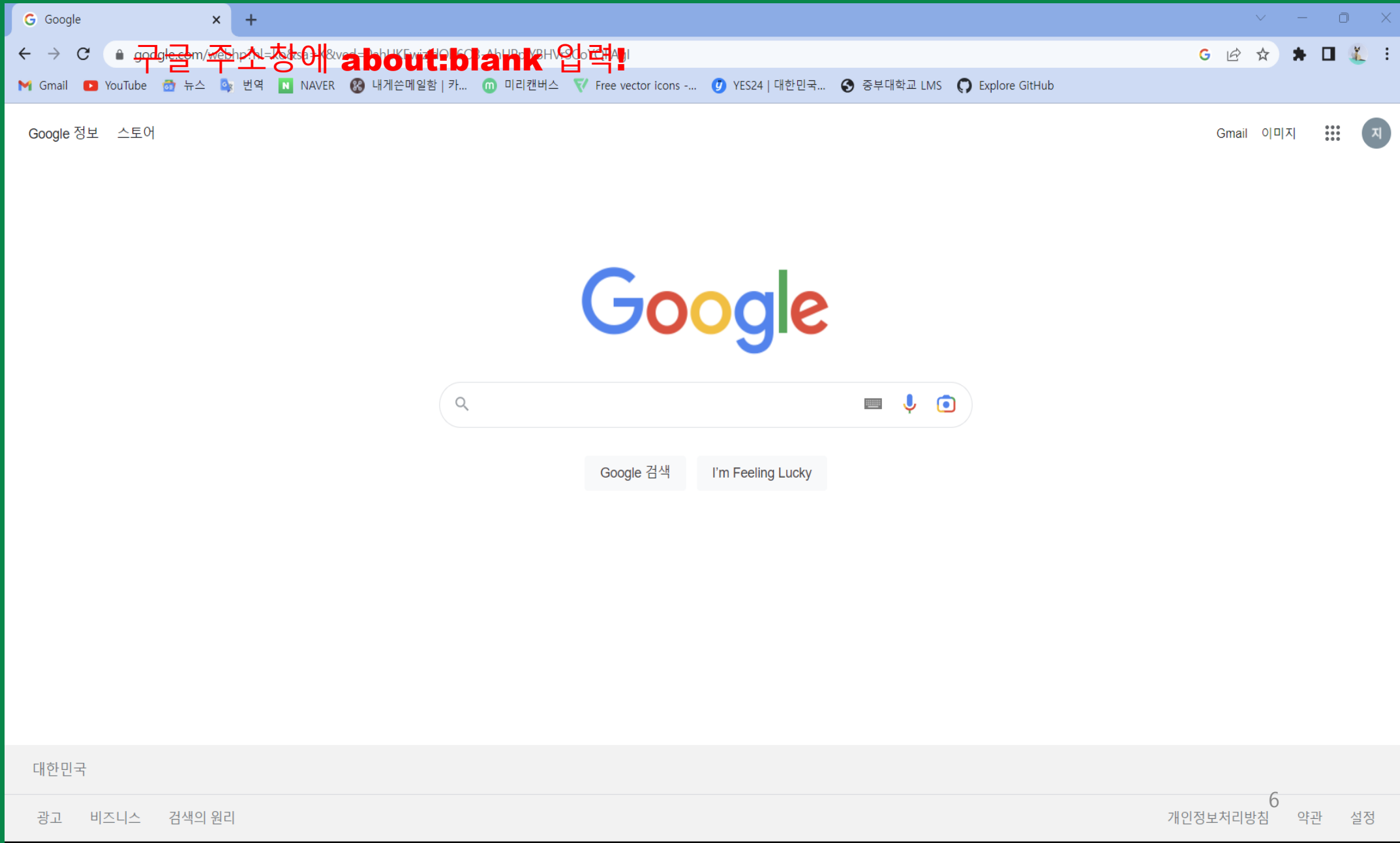
- File Explorer: Extensions: Marketplace
- Search: @sortinstalls
- Extensions List:
  - Python 2019.6.24221 54.9M 4.5 (Microsoft) [Install]
  - GitLens — Git sup... 9.8.5 23.1M 5 (Eric Amodio) [Install]
  - C/C++ 0.24.0 23M 3.5 (Microsoft) [Install]
  - ESLint 1.9.0 21.9M 4.5 (Dirk Baumer) [Install]
  - Debugger for Ch... 4.11.6 20.6M 4 (Microsoft) [Install]
  - Language Supp... 0.47.0 18.7M 4.5 (Red Hat) [Install]
  - vscode-icons 8.8.0 17.2M 5 (VSCode Icons Team) [Install]
  - Vetur 0.21.1 17M 4.5 (Pine Wu) [Install]
- Code Editor: serviceWorker.js - create-react-app - Visual Studio Code - In...
  - src > JS serviceWorker.js > register > window.addEventListener('load') callback
  - 39 checkValidServiceWorker(swUrl, config);
  - 40
  - 41 // Add some additional logging to localhost, p...
  - 42 // service worker/PWA documentation.
  - 43 navigator.serviceWorker.ready.then(() => {
  - 44 product
  - 45 productSub
  - 46 removeSiteSpecificTrackingException
  - 47 removeWebWideTrackingException
  - 48 requestMediaKeySystemAccess
  - 49 sendBeacon
  - 50 serviceWorker (property) Navigator.serviceWorke... ○
  - 51 storage
  - 52 storeSiteSpecificTrackingException
  - 53 storeWebWideTrackingException
  - 54 userAgent
  - 55 vendor
  - 56
  - 57 function registerValidSW(swUrl, config) {
  - 58 navigator.serviceWorker
  - 59 .register(swUrl)
  - 60 .then(registration => {
- Terminal: 1: node
- Output: You can now view create-react-app in the browser.
- Local: http://localhost:3000/

비주얼 스튜디오 코드  
설치하기

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about:blank



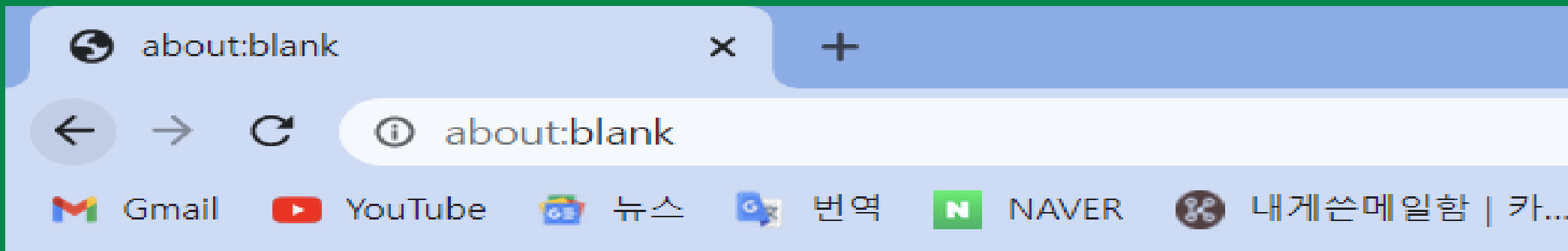
비주얼 스튜디오 코드 첫화면



about:blank

비주얼 스튜디오 코드  
설치하기

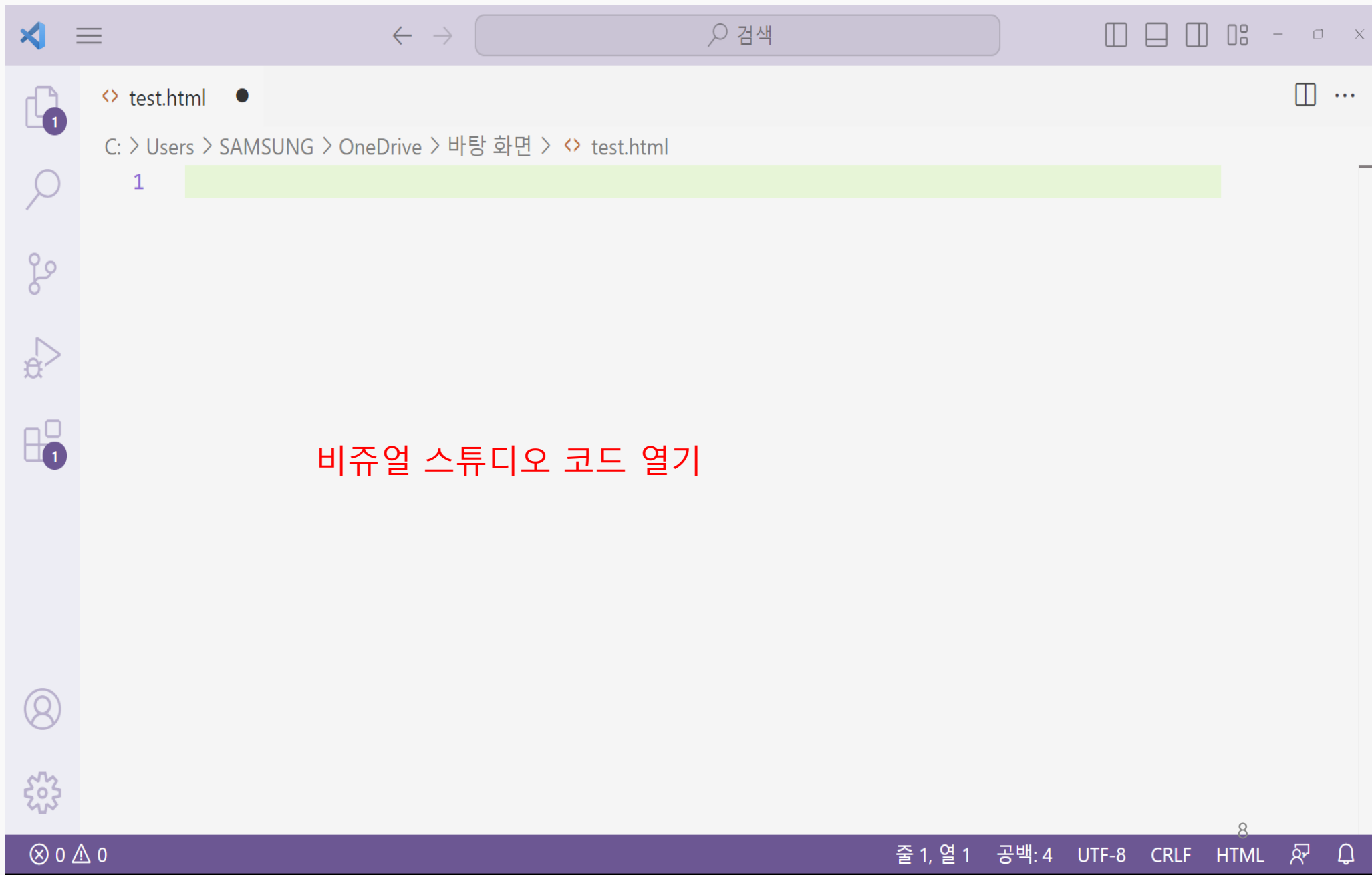
크롬 구글 주소창에  
about:blank



비주얼 스튜디오 코드 실행  
시켜 파일 메뉴 클릭!

파일을 만든 뒤 바로 저장

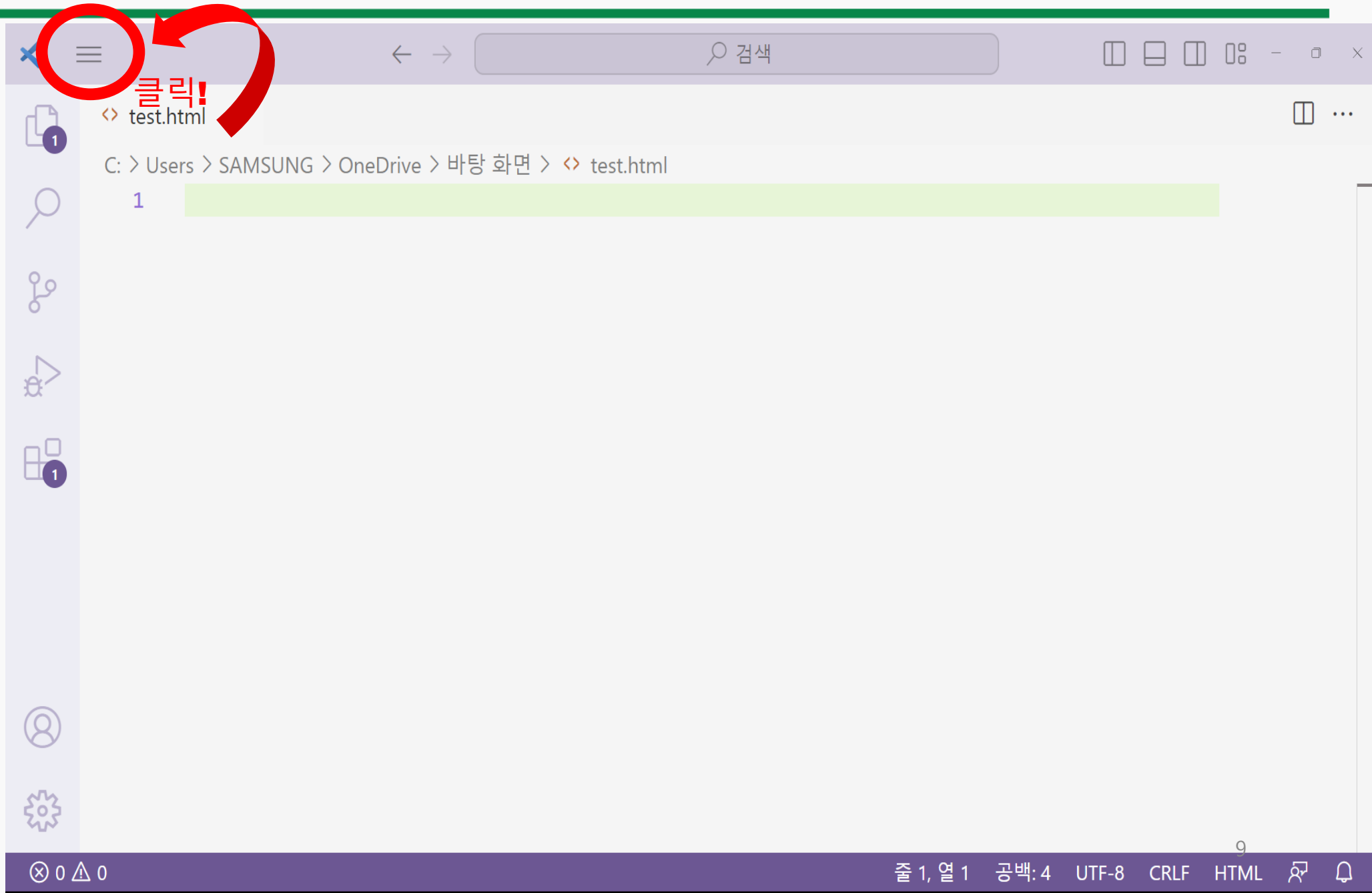
비주얼 스튜디오 코드 열기





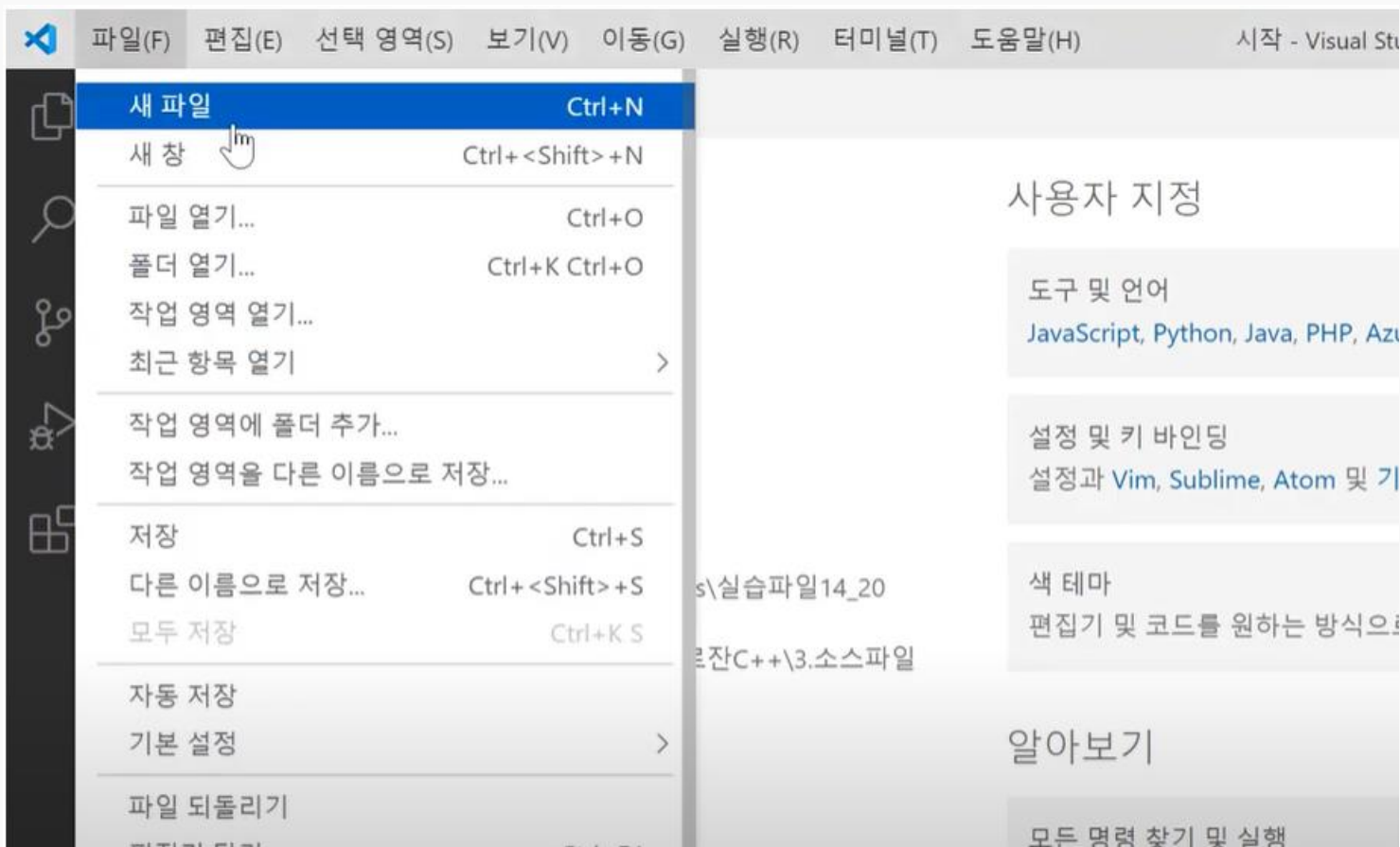
비주얼 스튜디오 코드 실행  
시켜 파일 메뉴 클릭!

파일을 만든 뒤 바로 저장



비주얼 스튜디오 코드 실행  
시켜 파일 메뉴 클릭!

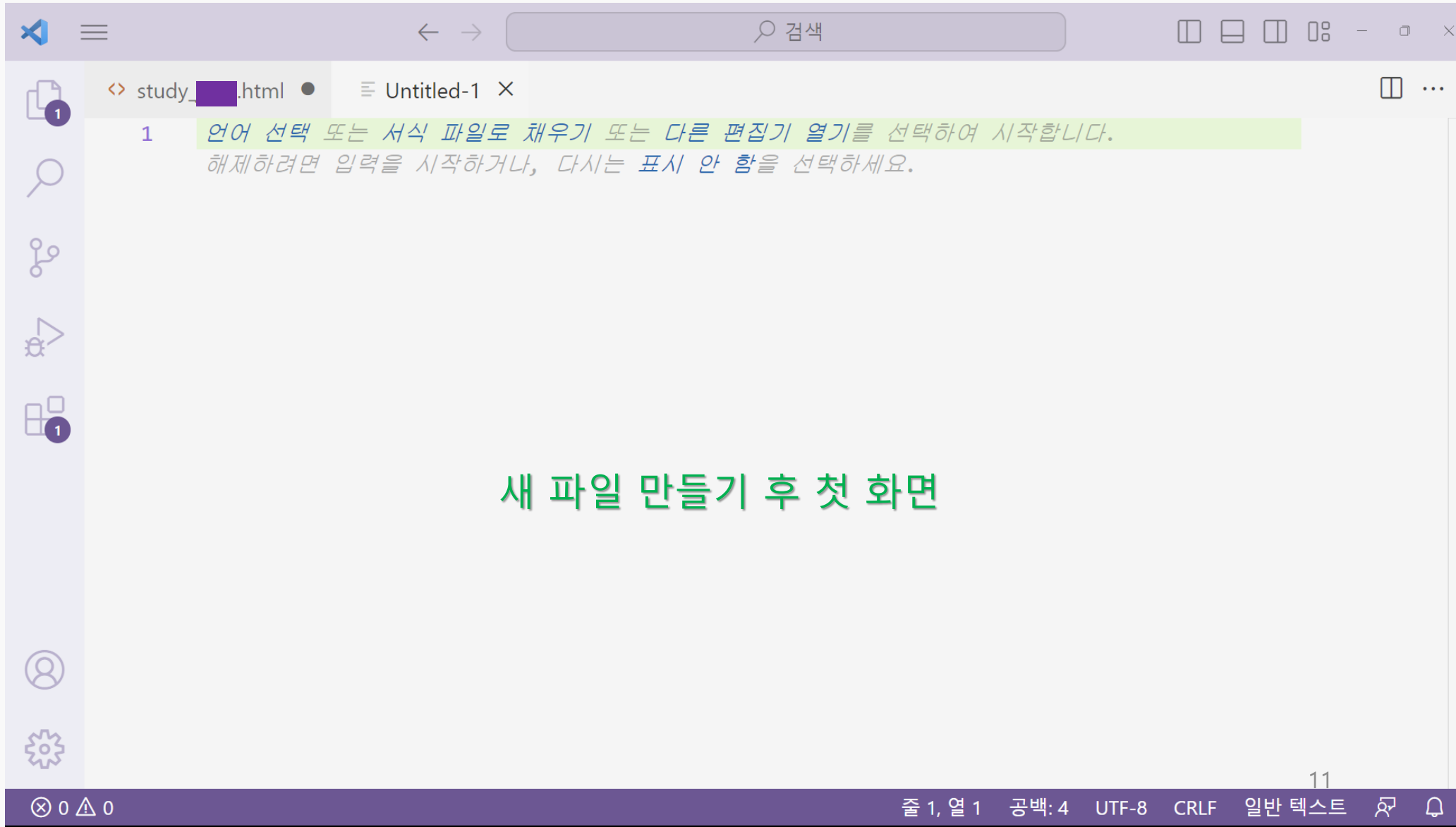
파일을 만든 뒤 바로 저장



Ctrl+s 저장 단축기!

비주얼 스튜디오 코드 실행  
시켜 파일 메뉴 클릭!

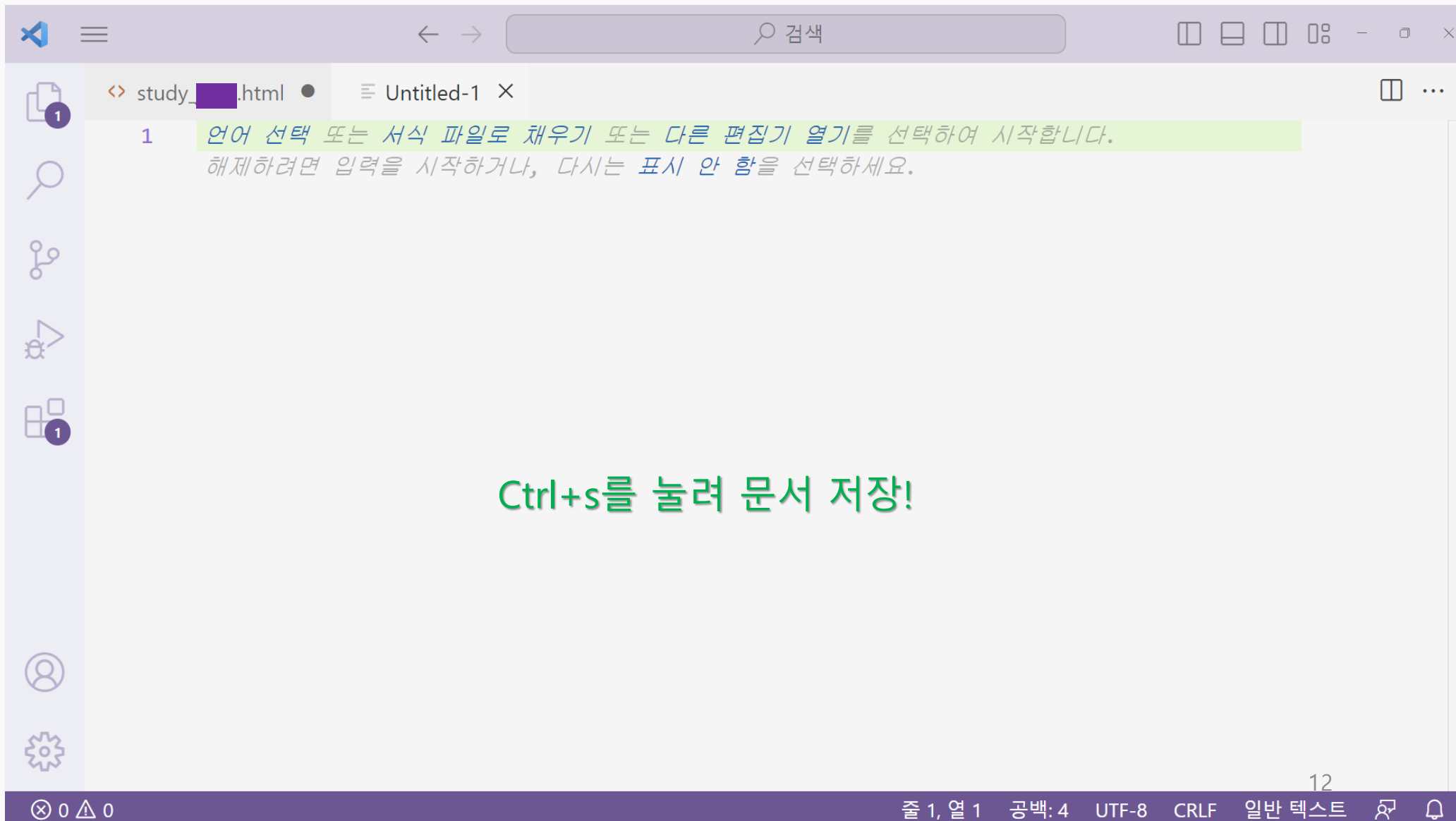
파일을 만든 뒤 바로 저장



새 파일 만들기 후 첫 화면

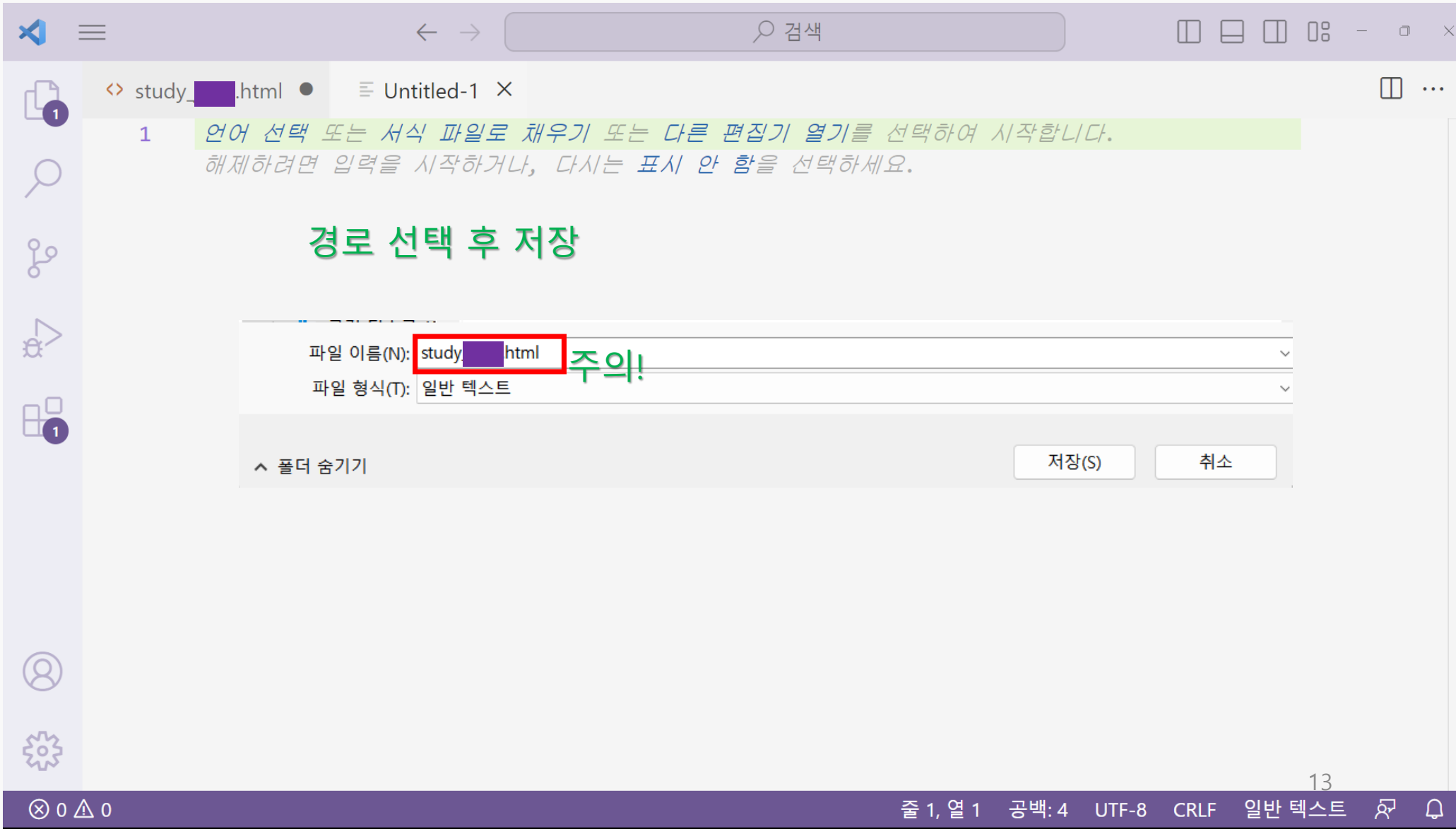
비주얼 스튜디오 코드 실행  
시켜 파일 메뉴 클릭!

파일을 만든 뒤 바로 저장



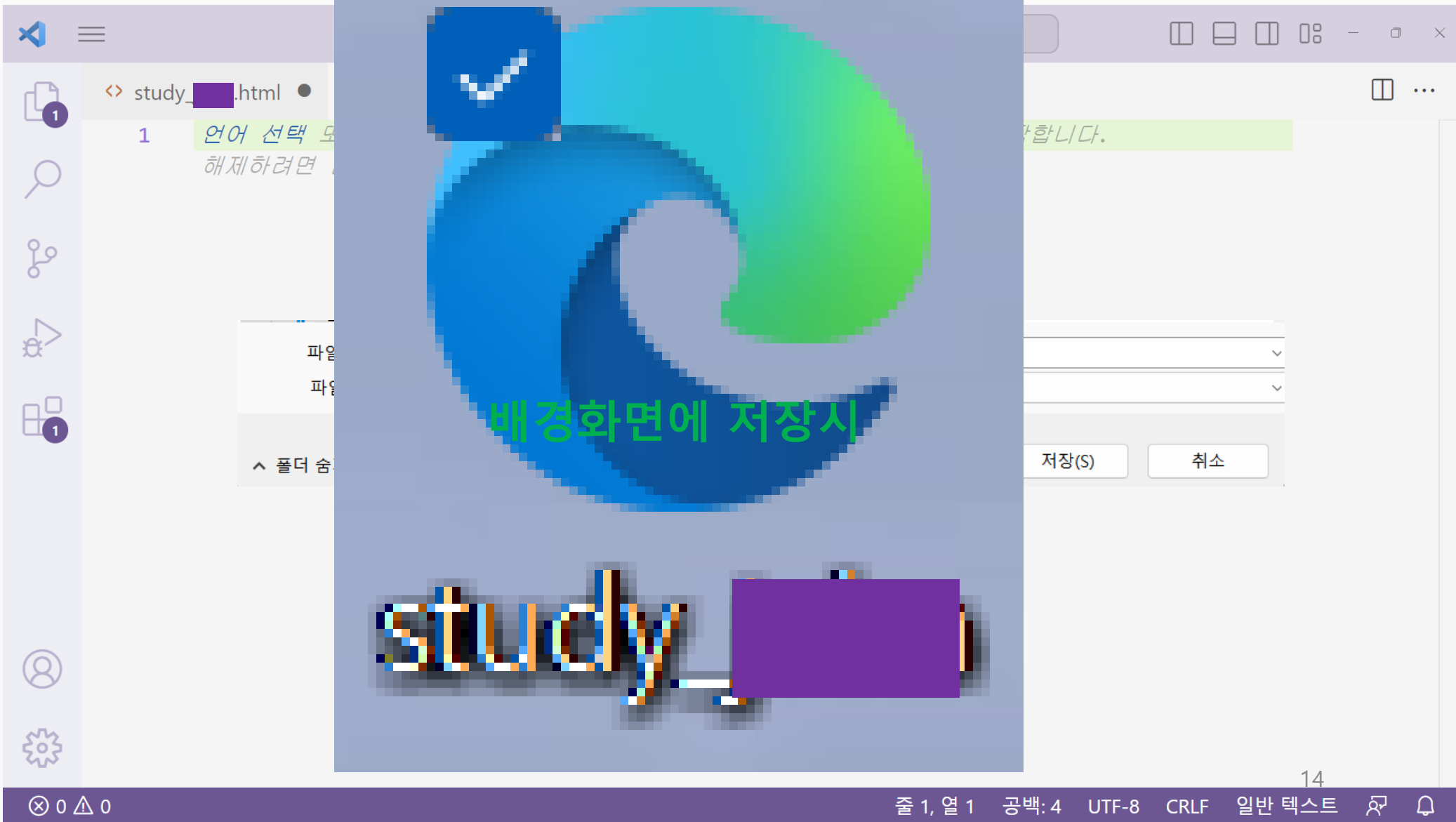
비주얼 스튜디오 코드 실행  
시켜 파일 메뉴 클릭!

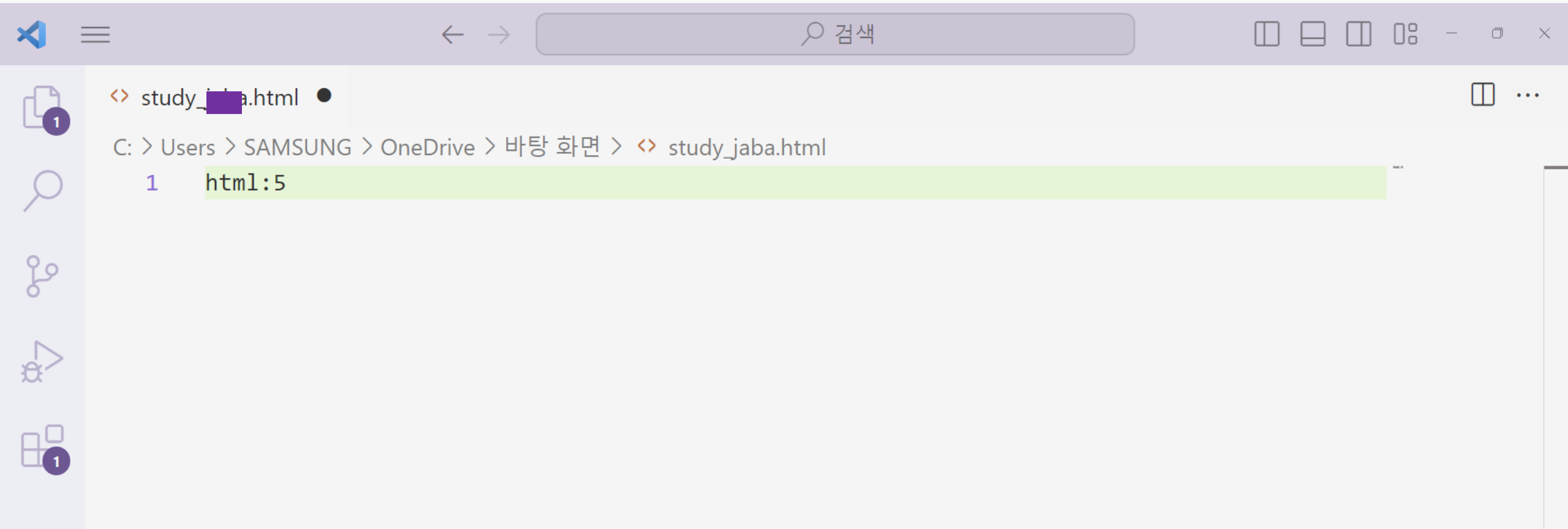
파일을 만든 뒤 바로 저장



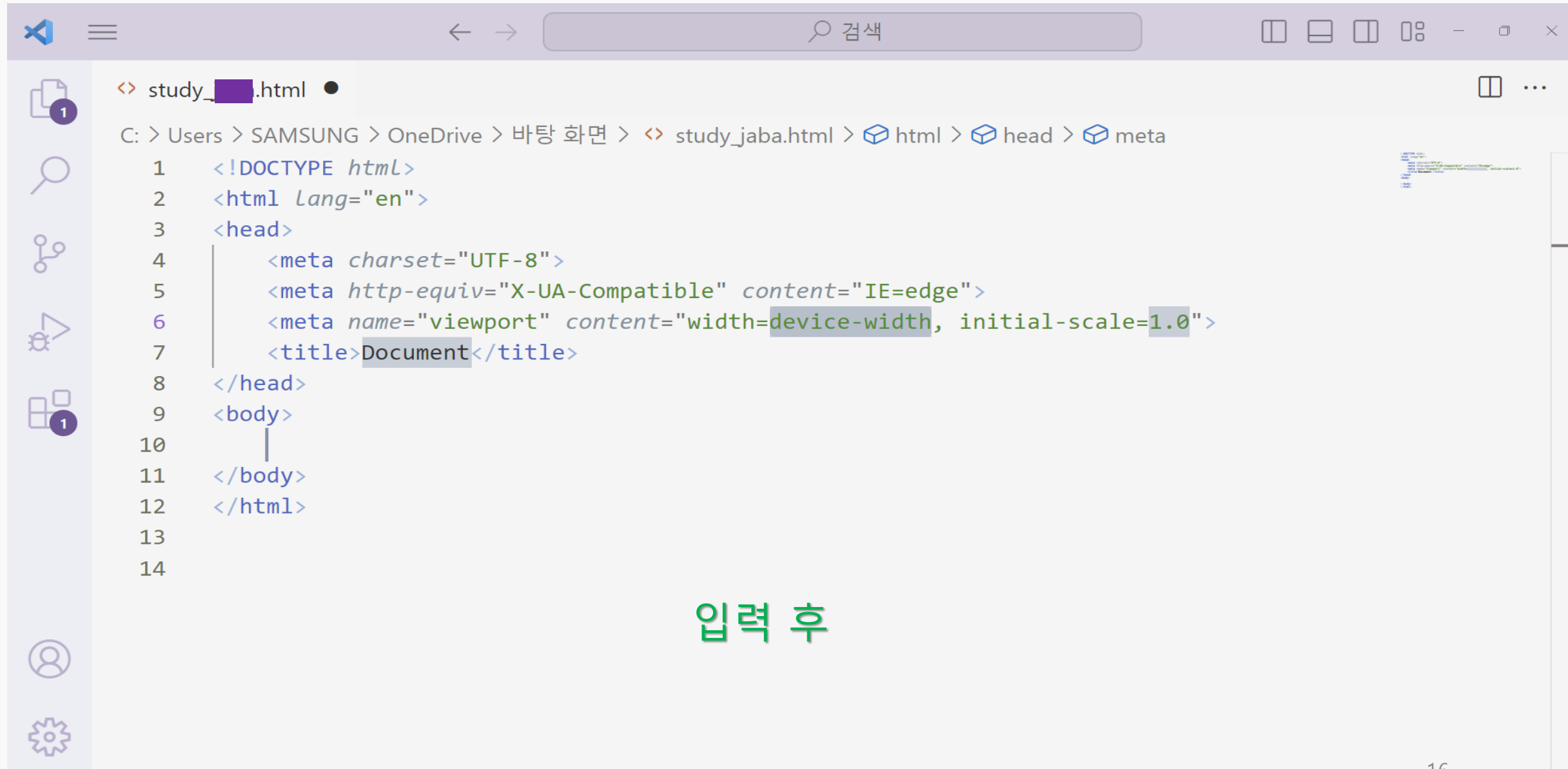
비주얼 스튜디오 코드 실행  
시켜 파일 메뉴 클릭!

파일을 만든 뒤 바로 저장





1행에 html:5입력!



```
<> study_...html •
C: > Users > SAMSUNG > OneDrive > 바탕 화면 > <> study_jaba.html > html > head > meta
1  <!DOCTYPE html>
2  <html Lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta http-equiv="X-UA-Compatible" content="IE=edge">
6      <meta name="viewport" content="width=device-width, initial-scale=1.0">
7      <title>Document</title>
8  </head>
9  <body>
10     |
11 </body>
12 </html>
13
14
```

입력 후



```
1  <!DOCTYPE html>
2  <html Lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta http-equiv="X-UA-Compatible" content="IE=edge">
6      <meta name="viewport" content="width=device-width, initial-scale=1.0">
7      <title>Document</title>
8      script
9  </head>
10 <body>
11
12 </body>
13 </html>
```

title 바로 다음 행에 script 입력

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta http-equiv="X-UA-Compatible" content="IE=edge">
6      <meta name="viewport" content="width=device-width, initial-scale=1.0">
7      <title>Document</title>
8      <script>
9
10     </script>
11
12 </head>
13 <body>
14
15 </body>
16 </html>
```

입력 후

## 4. 알아두어야 할 기본 용어

**표현식**(값을 만들어내는 간단한 코드)

27

$10+2+3*2$

**키워드**(자바스크립트가 처음 만들어질 때 정해놓은 특별한 의미가 있는 단어)

**식별자**(프로그래밍 언어에서 이름을 붙일 때 사용하는 단어)

키워드 사용 금지

숫자로 시작x

특수 문자는 \_이나\$만 o

공백 문자x

## 2. 알아두어야 할 기본 용어

표현식(값을 만들어내는 간단한 코드)

2020년 기준 키워드로 정의 내린 단어

break	else	instanceof	true
case	false	new	try
catch	finally	null	typeof
continue	for	return	var
default	function	switch	void
delete	if	this	while
do	in	throw	with

단어

## 4. 알아두어야 할 기본 용어

**표현식**(값을 만들어내는 간단한 코드)

27

10 + 2 + 2 \* 2

구분	단독으로 사용	다른 식별자와 사용
식별자 뒤에 괄호 있음	변수	속성
식별자 뒤에 괄호가 없음	함수	메소드

공백 문자X

**식별자의 종류**

## 4. 알아두어야 할 기본 용어

표현식 (값을

27

10 - 2 - 2 \* 2

식별자 뒤

식별자 뒤

식별자 뒤

식별자 뒤

식별자 뒤

식별자 뒤

식별자 뒤

식별자 뒤

식별자 뒤

식별자 뒤

식별자 뒤

alert("Hello")	함수
Array.lenght	속성
input	변수
prompt("Message", "Defstr")	함수
math.PI	속성
Math.abs(-273)	메소드

식별자와 사용

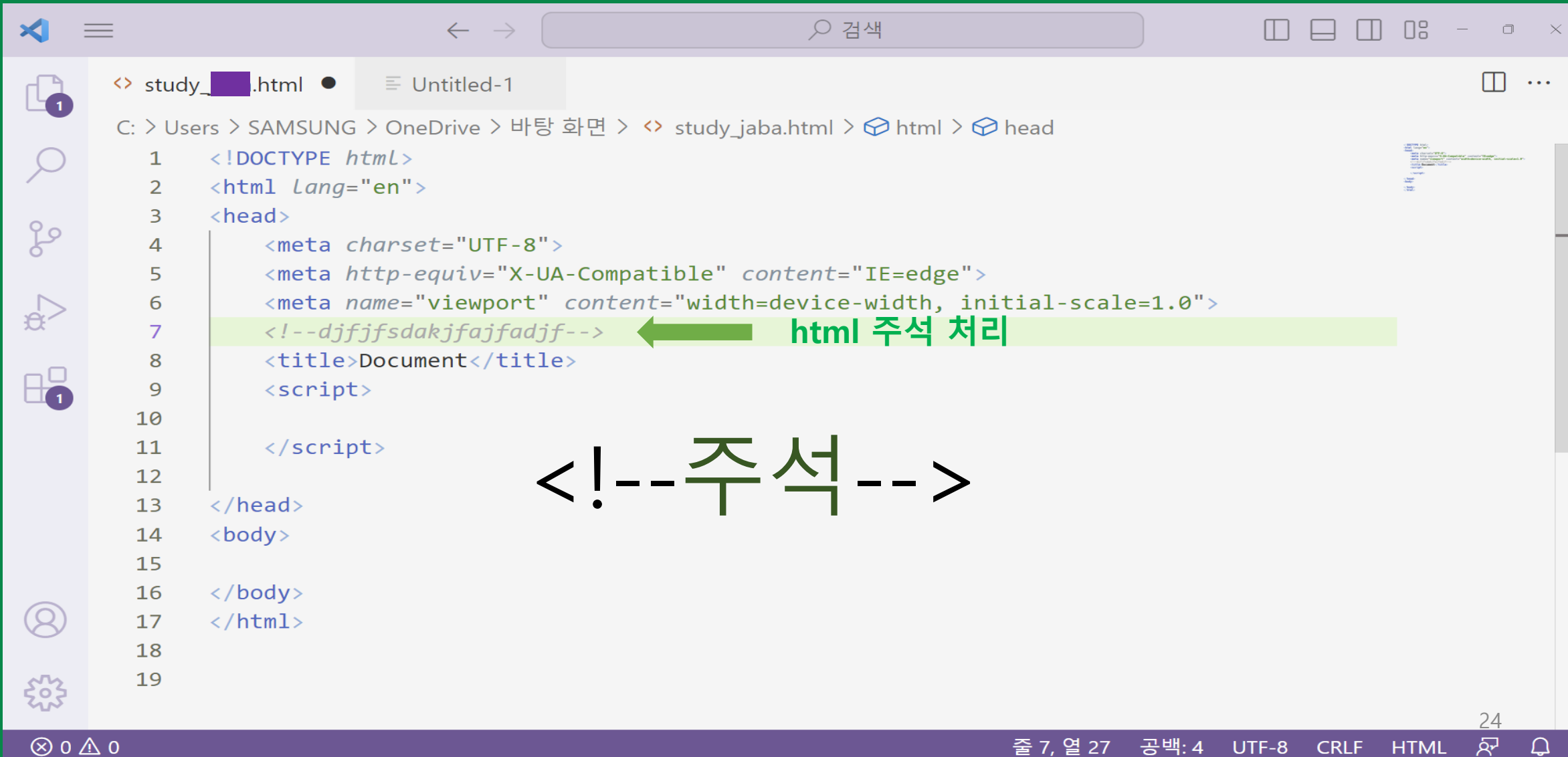
속성

소드

## 4. 알아두어야 할 기본 용어

주석(프로그램 코드 설명 때 사용)  
코드 입력과 출력에 전혀 영향을 주지 않는다.

## 4. 알아두어야 할 기본 용어



The screenshot shows a code editor with a file named `study_...html` open. The file path is `C:\> Users > SAMSUNG > OneDrive > 바탕 화면 > <> study_jaba.html > html > head`. The code is as follows:

```
1 <!DOCTYPE html>
2 <html Lang="en">
3 <head>
4     <meta charset="UTF-8">
5     <meta http-equiv="X-UA-Compatible" content="IE=edge">
6     <meta name="viewport" content="width=device-width, initial-scale=1.0">
7     <!--djfjfsdakjfajfadjf-->
8     <title>Document</title>
9     <script>
10
11     </script>
12
13 </head>
14 <body>
15
16 </body>
17 </html>
18
19
```

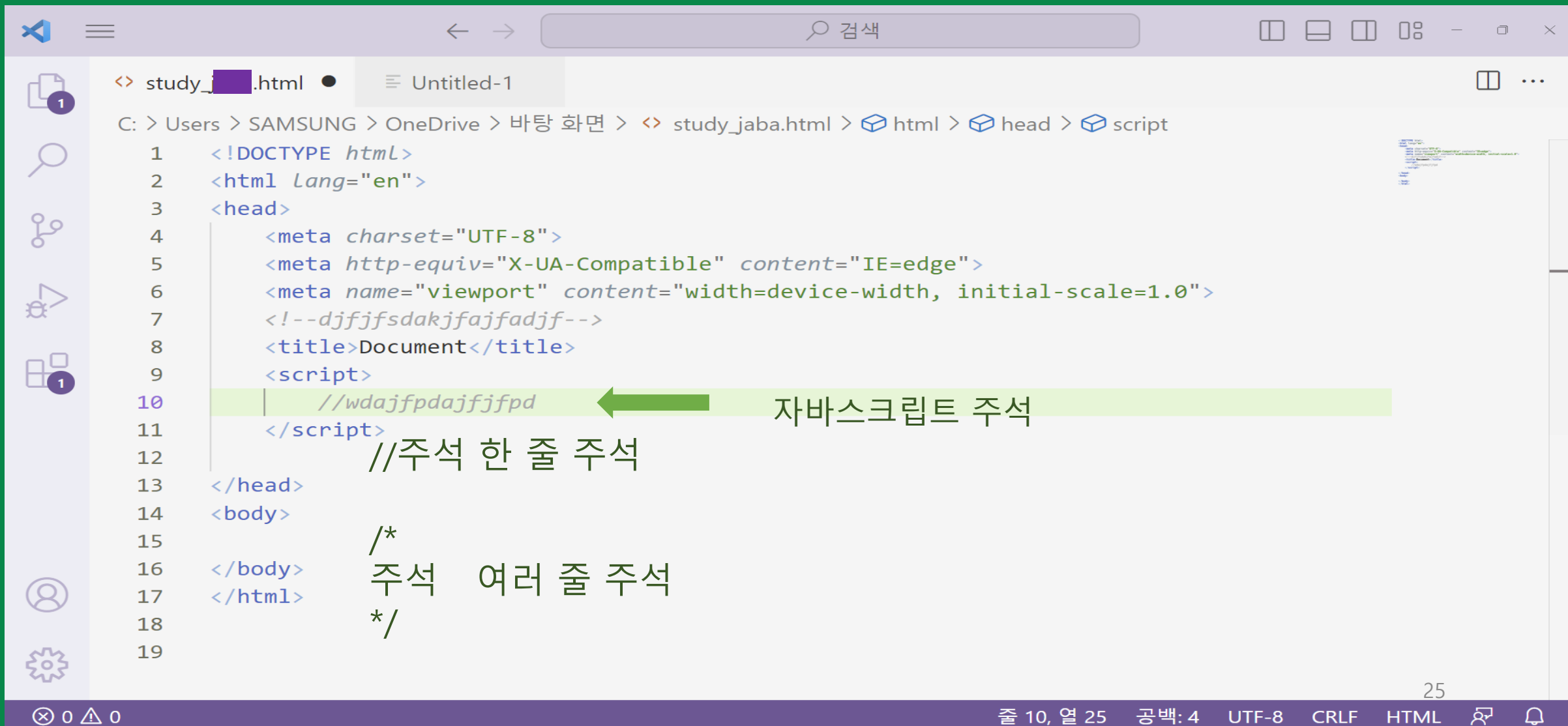
A green arrow points from the text **html 주석 처리** to the comment line 7: `<!--djfjfsdakjfajfadjf-->`.

Below the code, the text **<!--주석-->** is displayed.

At the bottom of the editor, the status bar shows: `줄 7, 열 27`, `공백: 4`, `UTF-8`, `CRLF`, `HTML`, and a bell icon.



## 4. 알아두어야 할 기본 용어



The screenshot shows a code editor with the following HTML code and annotations:

```
1 <!DOCTYPE html>
2 <html Lang="en">
3 <head>
4     <meta charset="UTF-8">
5     <meta http-equiv="X-UA-Compatible" content="IE=edge">
6     <meta name="viewport" content="width=device-width, initial-scale=1.0">
7     <!--djfjfsdakjfajfadjf-->
8     <title>Document</title>
9     <script>
10        //wdajfpdajfjfpd
11    </script>
12    //주석 한 줄 주석
13 </head>
14 <body>
15     /*
16     </body> 주석 여러 줄 주석
17     </html>
18     */
19
```

Annotations and arrows:

- A green arrow points from the text "자바스크립트 주석" (JavaScript comment) to the line `//wdajfpdajfjfpd` in the `<script>` block.
- The text "//주석 한 줄 주석" (//comment one line comment) is placed next to the line `//wdajfpdajfjfpd`.
- The text "/\* 주석 여러 줄 주석 \*/" (/\* comment multiple lines comment \*/) is placed next to the multi-line comment block in the `<body>` section.

Page number: 25

## 5. 숫자연산자, 볼연산자

숫자 자료형을 사용하면 숫자 연산자로 사칙 연산을 할 수 있다.

연산자	설명	연산자	설명
+	더하기	*	곱하기
-	빼기	/	나누기 연산자

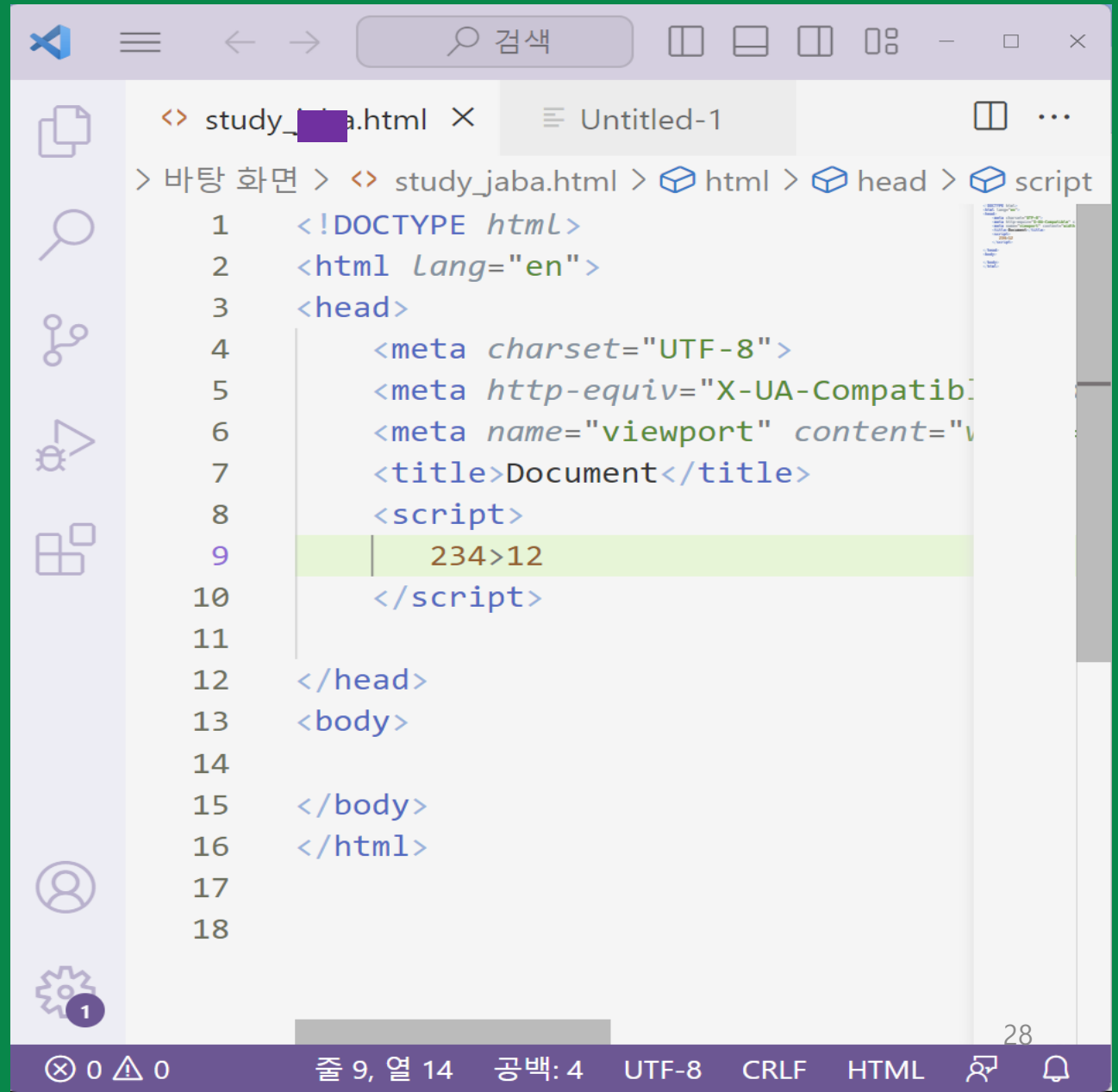
## 5. 숫자연산자, 볼연산자

### 복합 대입 연산자

복합 대입 연산자	설명	사용 예	의의
<code>+=</code>	기존 변수의 값에 값을 더합니다.	<code>a+=1</code>	<code>a=a+1</code>
<code>-=</code>	기존 변수의 값에 값을 뺍니다.	<code>a-=1</code>	<code>a=a-1</code>
<code>*=</code>	기존 변수의 값에 값을 곱합니다.	<code>a*=1</code>	<code>a=a*1</code>
<code>/=</code>	기존 변수의 값에 값을 나눕니다.	<code>a/=1</code>	<code>a=a/1</code>
<code>%=</code>	기존 변수의 값에 나머지를 구합니다.	<code>a%=1</code>	<code>a=a%1</code>

## 5. 숫자연산자, 불연산자

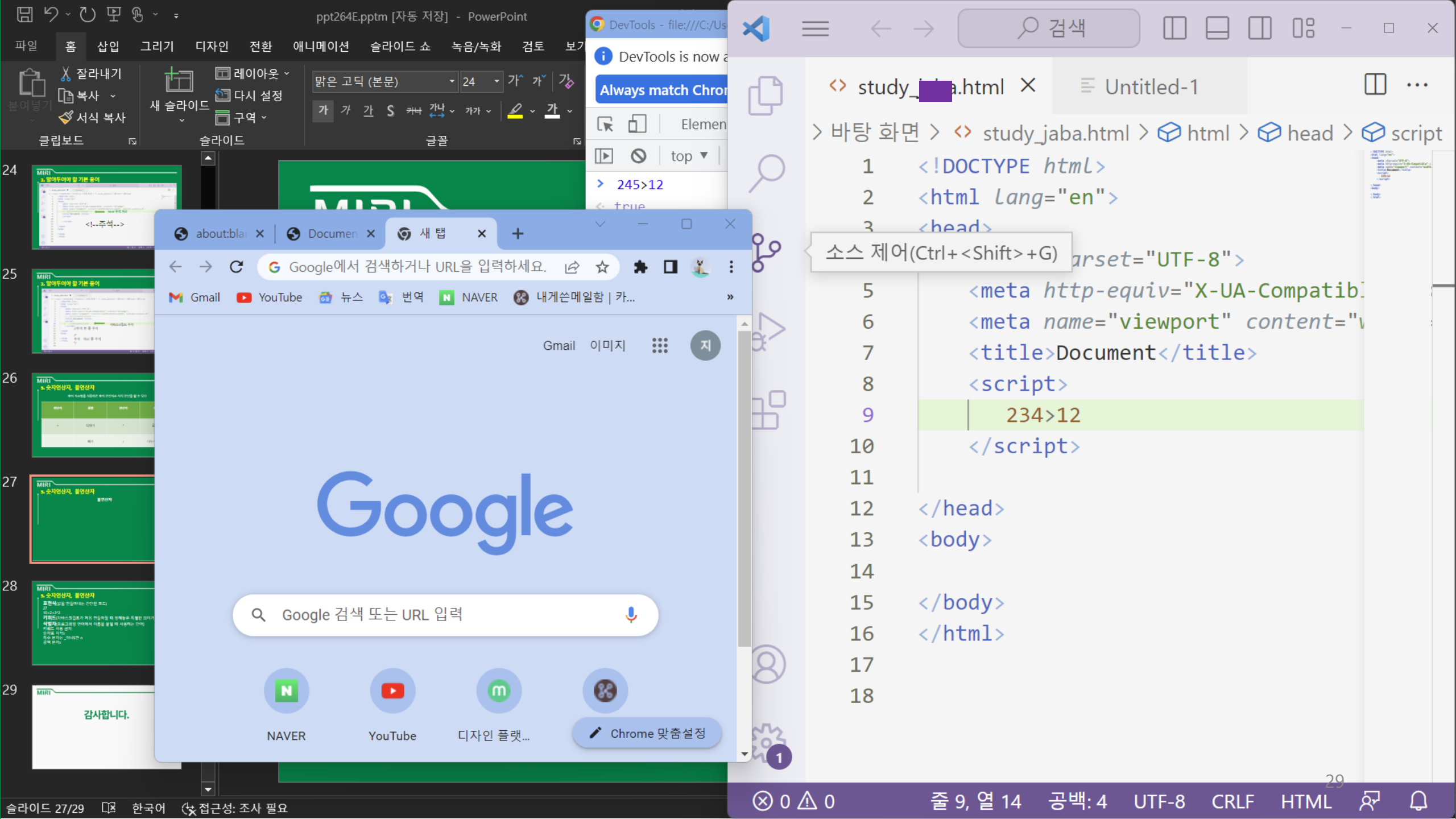
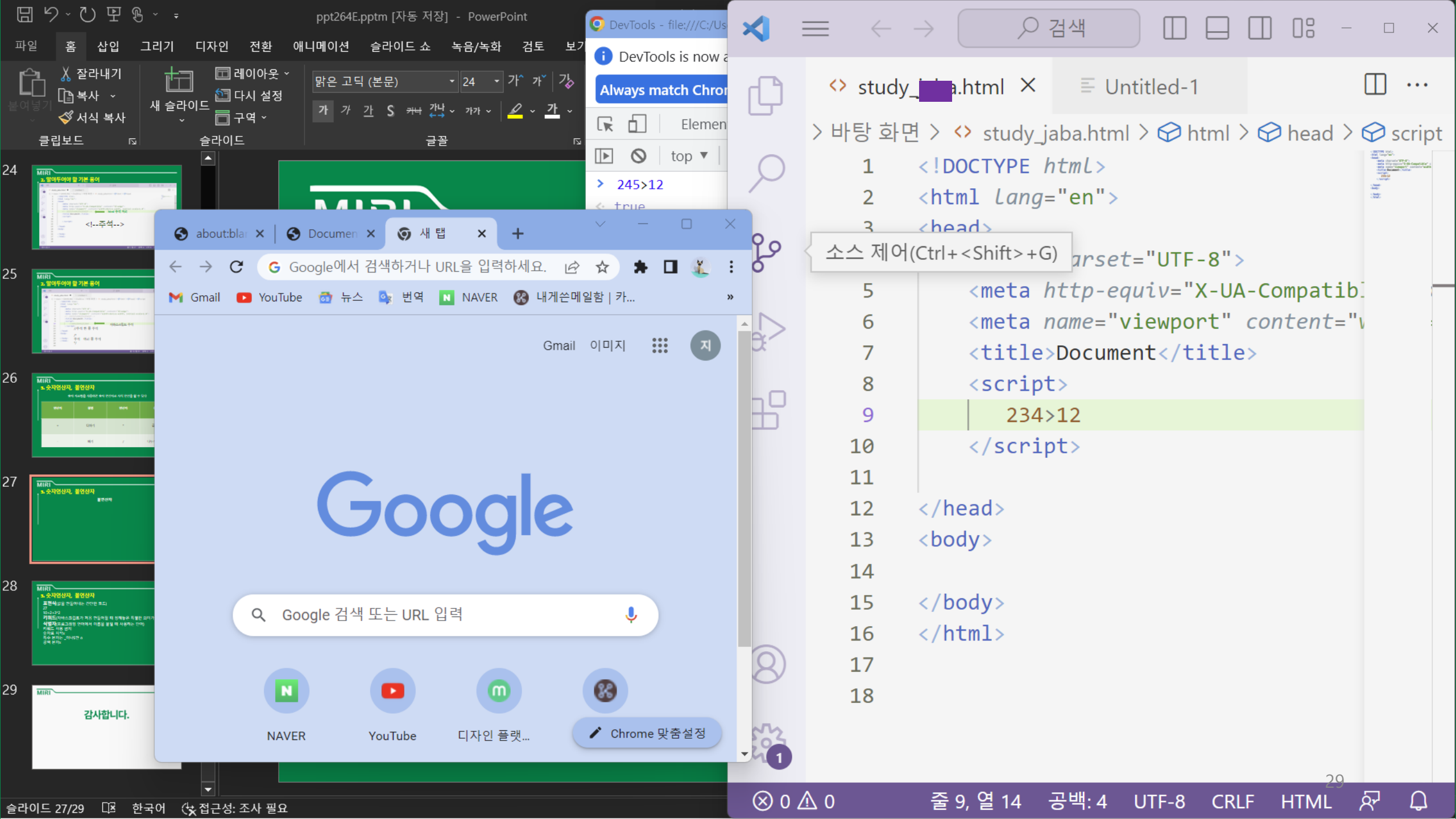
불연산자



The screenshot shows a code editor with a file named 'study\_...a.html'. The breadcrumb navigation indicates the current location is 'study\_jaba.html > html > head > script'. The code is as follows:

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatib
6   <meta name="viewport" content="v
7   <title>Document</title>
8   <script>
9     234>12
10  </script>
11
12 </head>
13 <body>
14
15 </body>
16 </html>
17
18
```

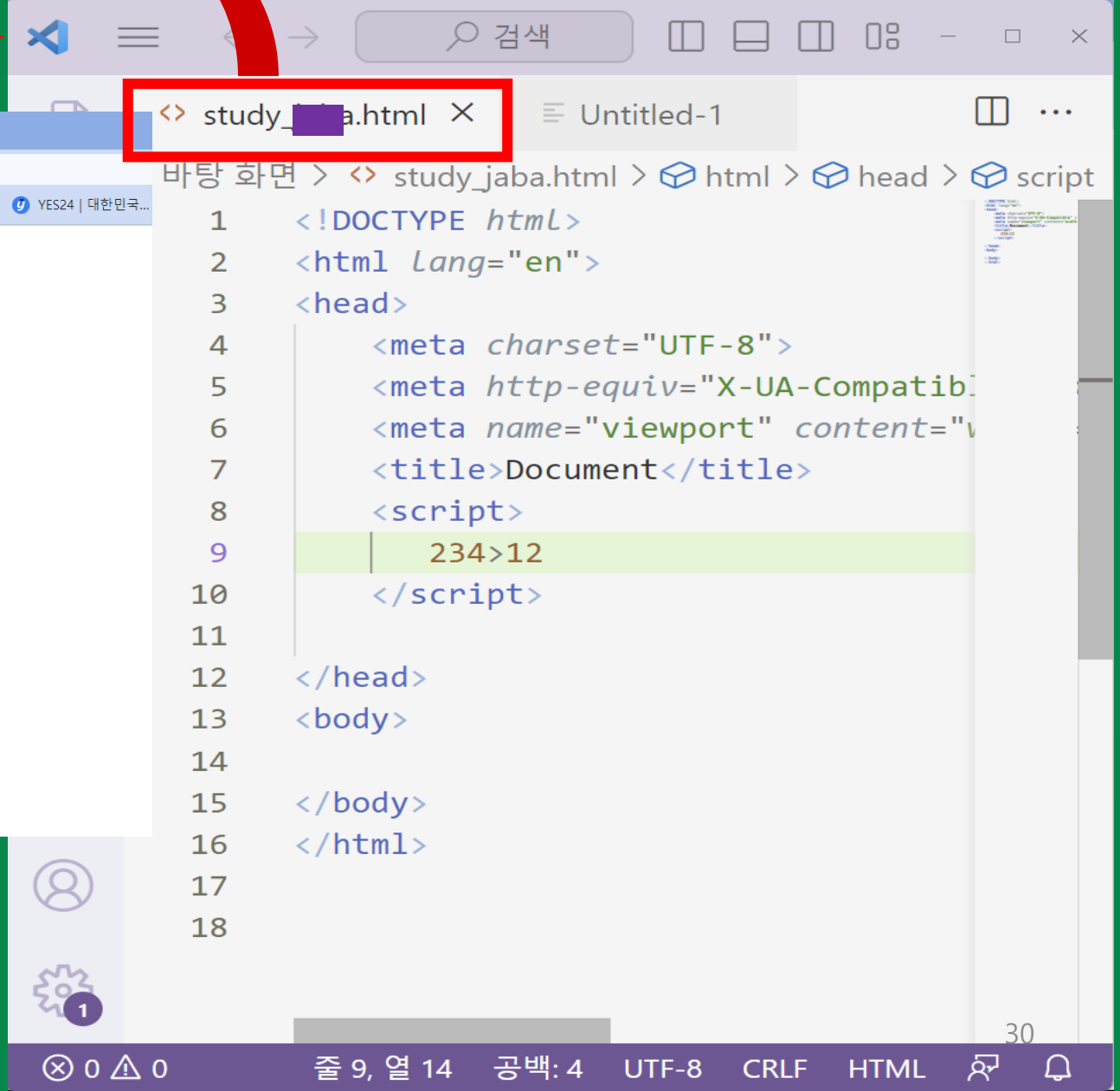
The status bar at the bottom shows '줄 9, 열 14' (Line 9, Column 14), '공백: 4' (Spaces: 4), 'UTF-8', 'CRLF', 'HTML', and a notification icon.



## 5. 숫자연산자, 볼연산자

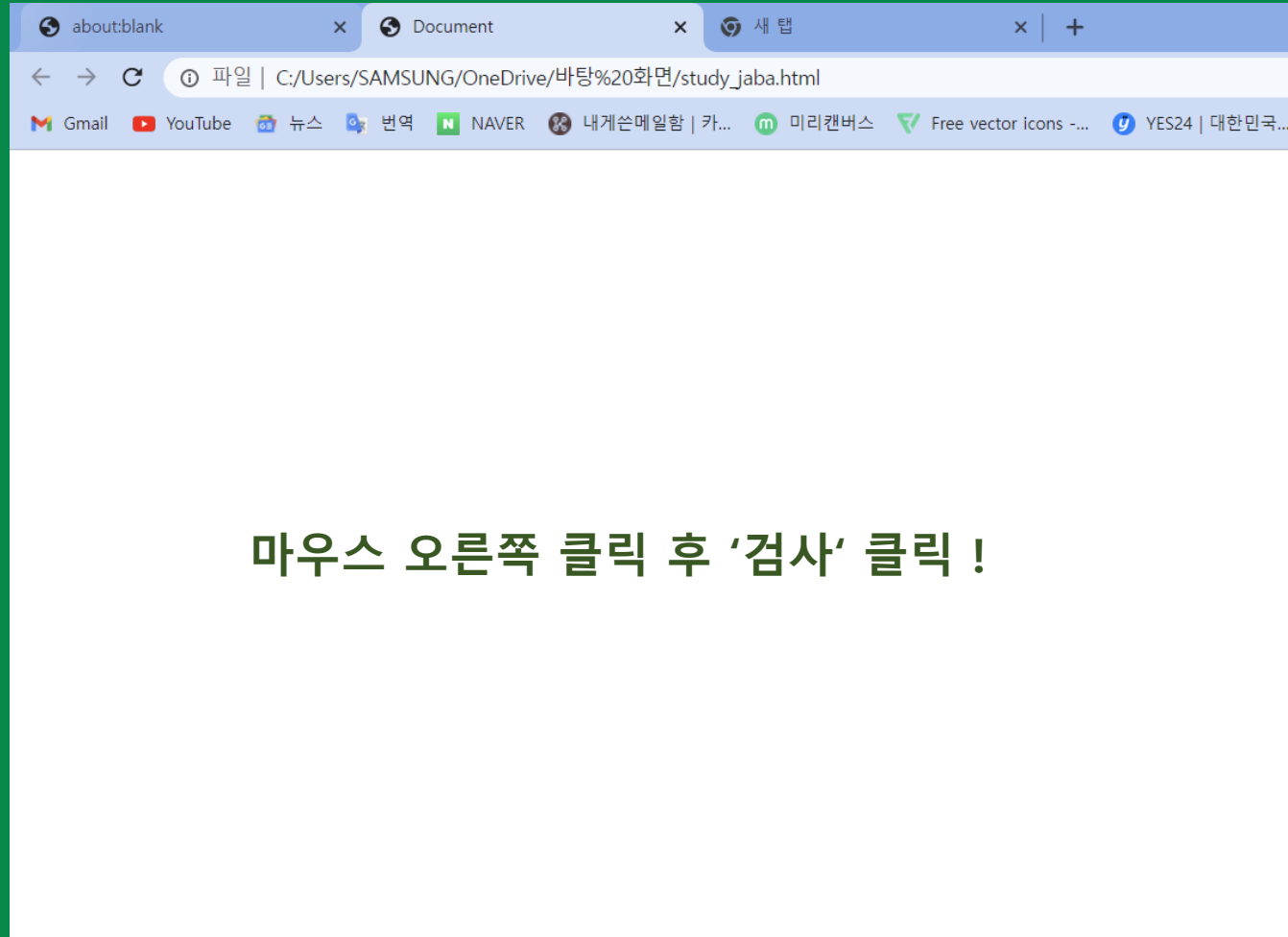
Document로 바뀐거 확인

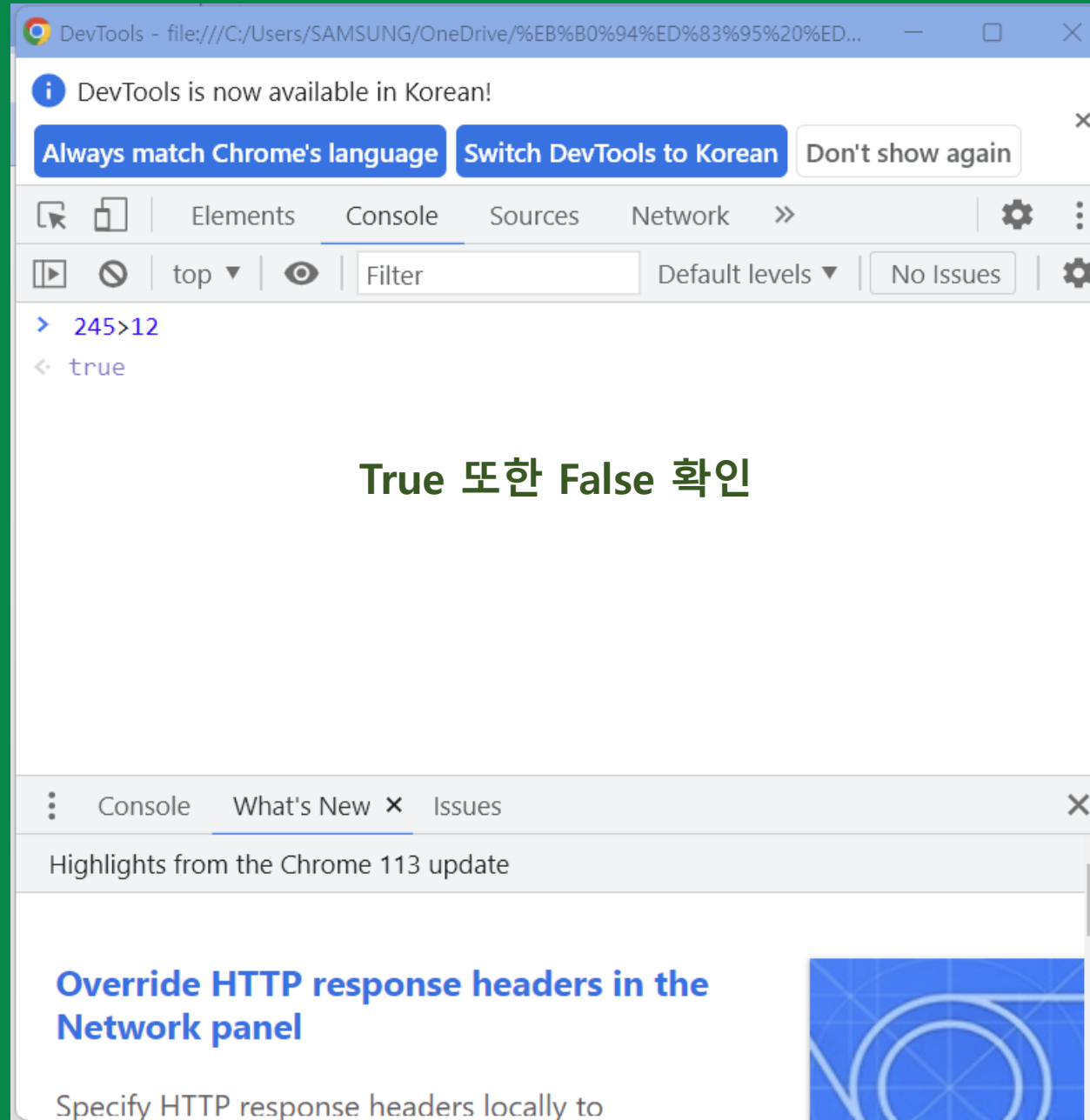
볼연산자



```
<!DOCTYPE html>
<html Lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatib
  <meta name="viewport" content="v
  <title>Document</title>
  <script>
    234>12
  </script>
</head>
<body>
</body>
</html>
```

## 5. 숫자연산자, 볼연산자





True 또한 False 확인



연산자	설명
&&	논리곱 연산자
	논리합 연산자

&&은 '그리고'  
||는 '또는'의 의미를 갖는다.

## 7. 자료형 변환

문자열 입력

문자열 자료형을 입력할 때 사용하는 함수는 `prompt()`입니다. 다음과 같은 형태로 사용

```
prompt(메시지 문자열, 기본 입력 문자열)
```



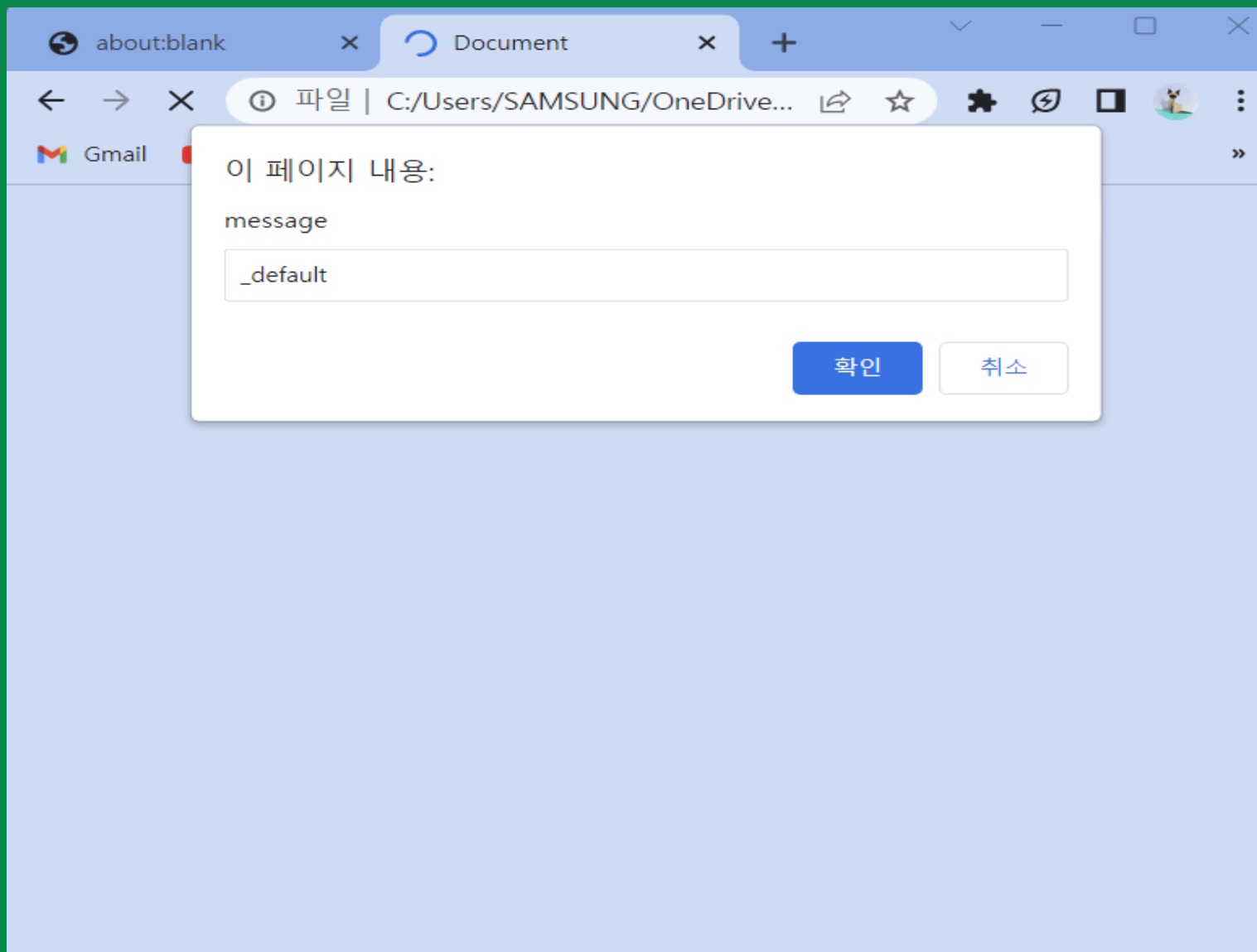
<> study\_...a.html X    ≡ Untitled-1

C: > Users > SAMSUNG > OneDrive > 바탕 화면 > <> study\_jaba.html > html > head > script

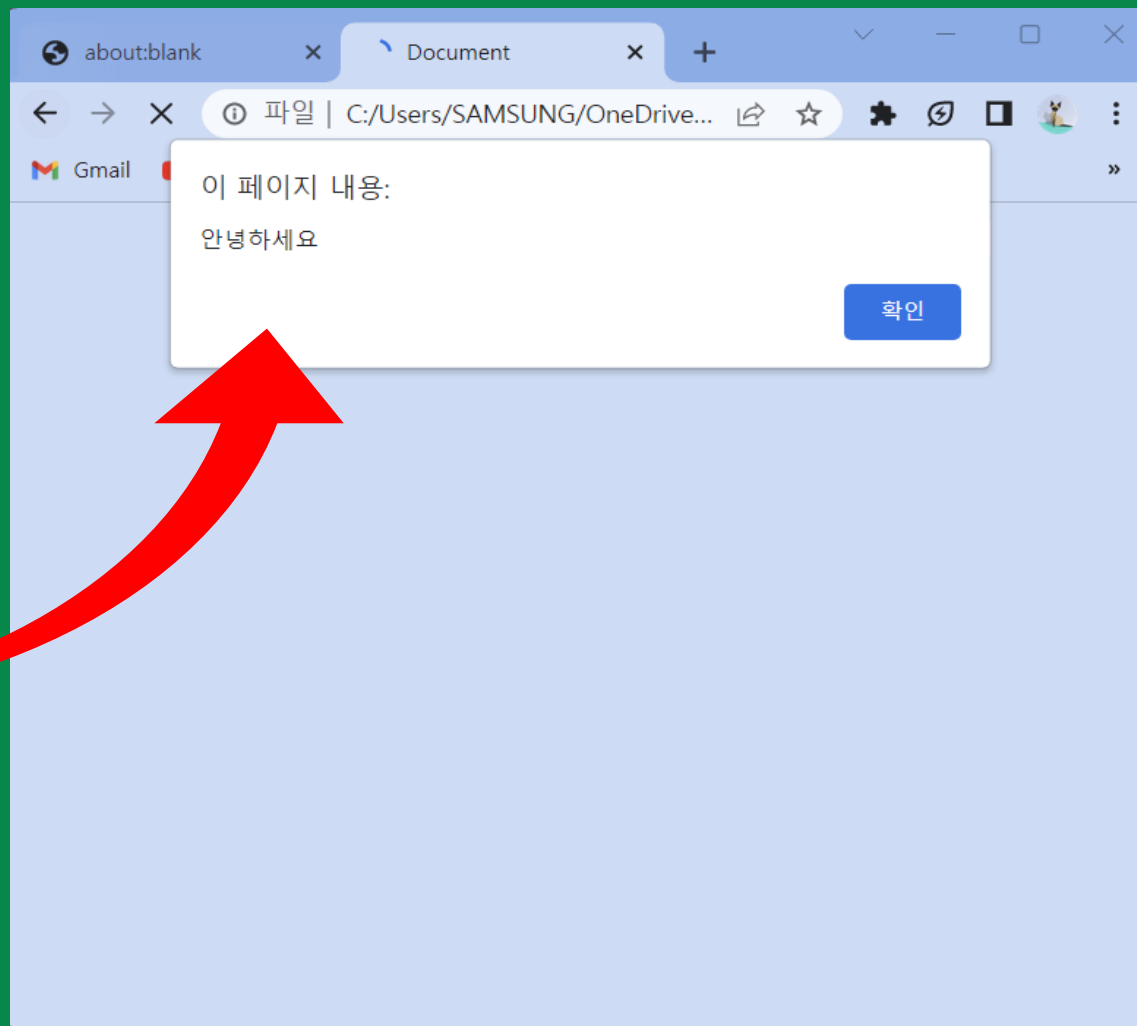
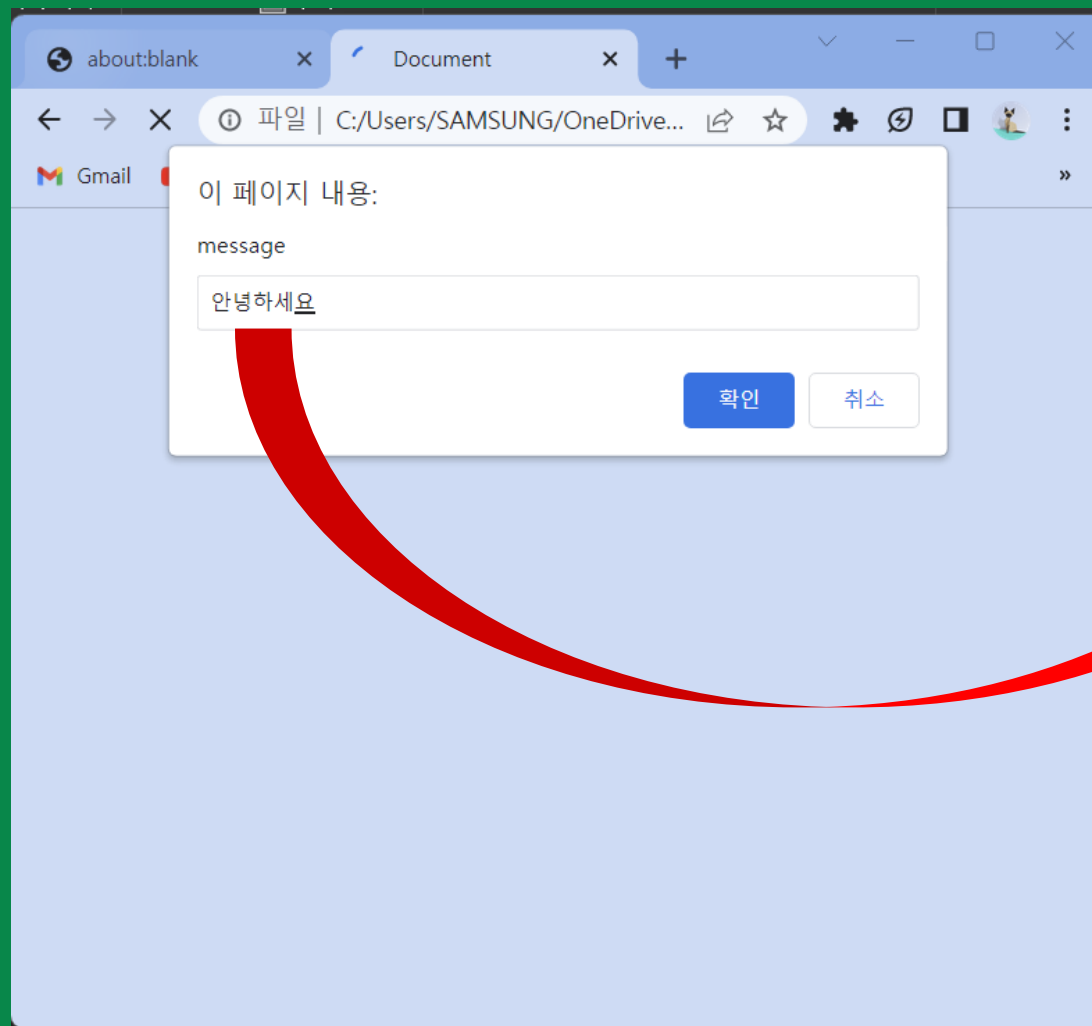
```
1  <!DOCTYPE html>
2  <html Lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta http-equiv="X-UA-Compatible" content="IE=edge">
6      <meta name="viewport" content="width=device-width, initial-scale=1.0">
7      <title>Document</title>
8      <script>
9          const input=prompt("message", "_default")
10
11          alert(input)
12      </script>
13
14  </head>
15  <body>
16
17  </body>
18  </html>
19
20
```



## 7. 자료형 변환



## 7. 자료형 변환



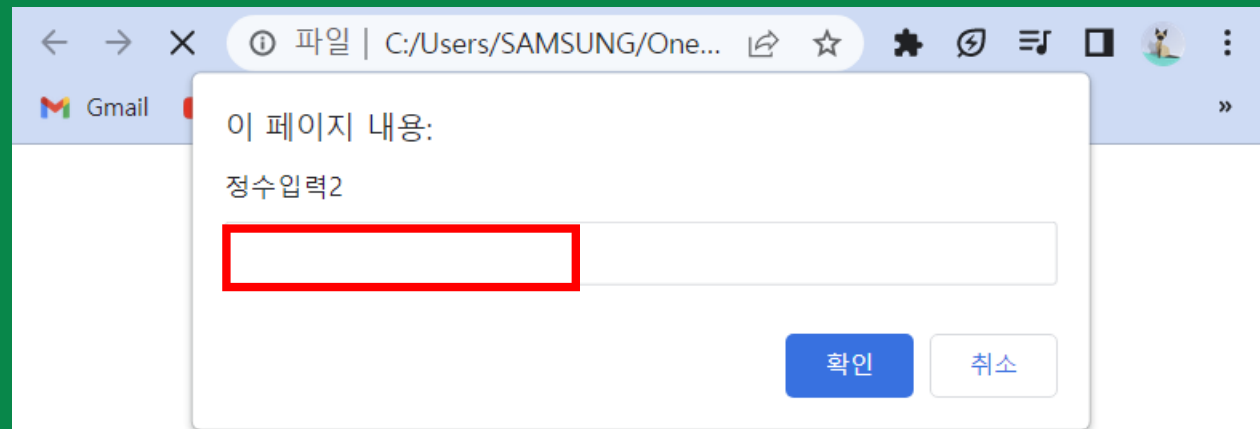
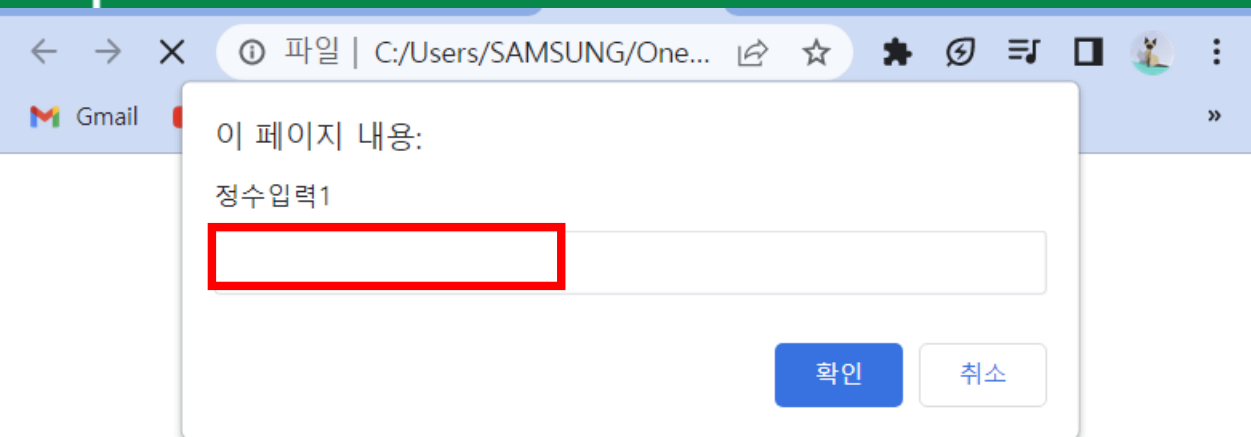
study\_...a.html X    Untitled-1

C: > Users > SAMSUNG > OneDrive > 바탕 화면 > <> study\_jaba.html > html > head > script

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta http-equiv="X-UA-Compatible" content="IE=edge">
6      <meta name="viewport" content="width=device-width, initial-scale=1.0">
7      <title>Document</title>
8      <script>
9          const a = prompt("정수 1입력", "")
10         const b = prompt("정수2 입력", "")
11
12         alert(a+b)
13
14     </script>
15
16 </head>
17 <body>
18
19
20 </body>
```

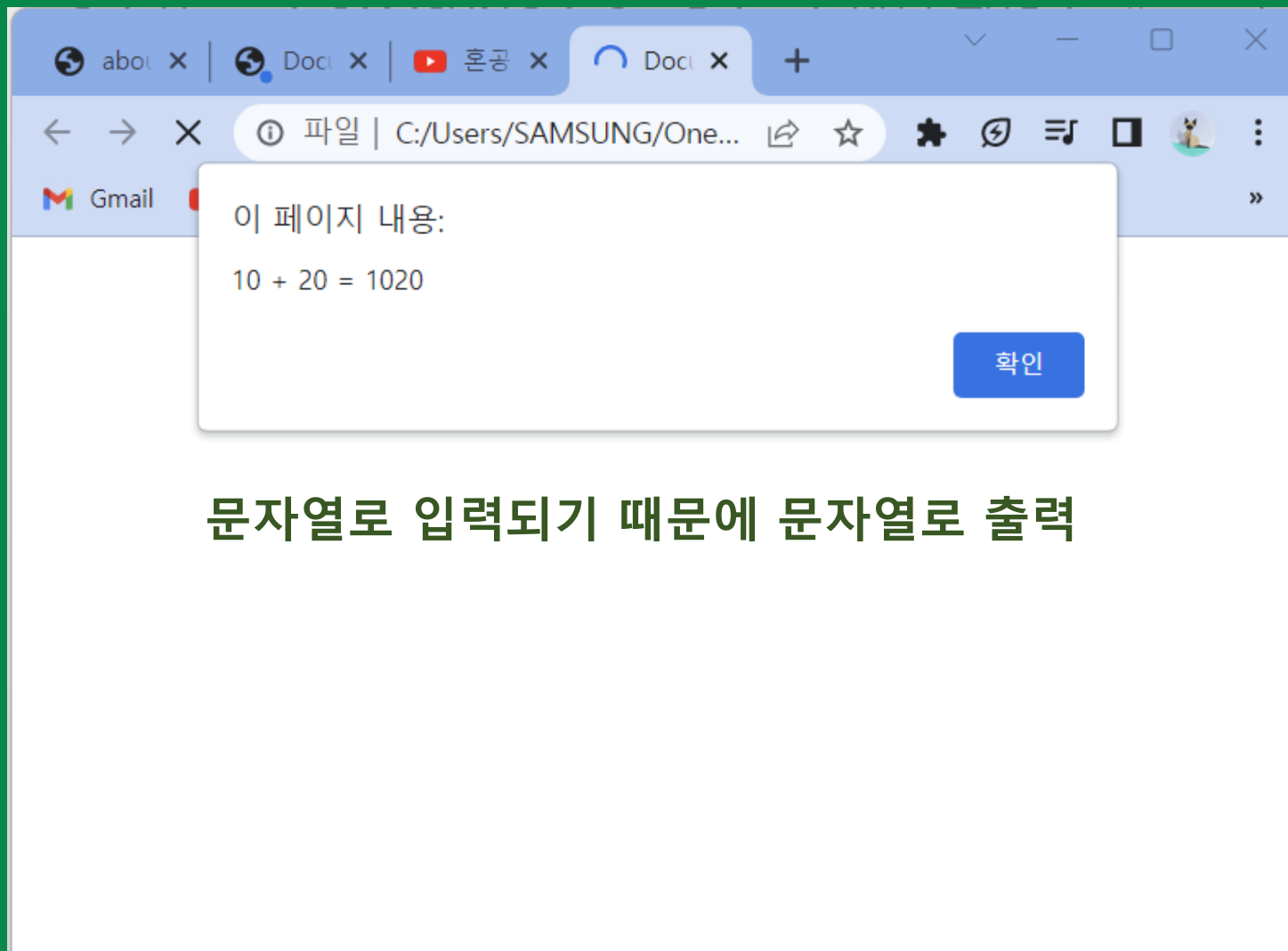
study\_jaba.html

## 7. 자료형 변환



입력!

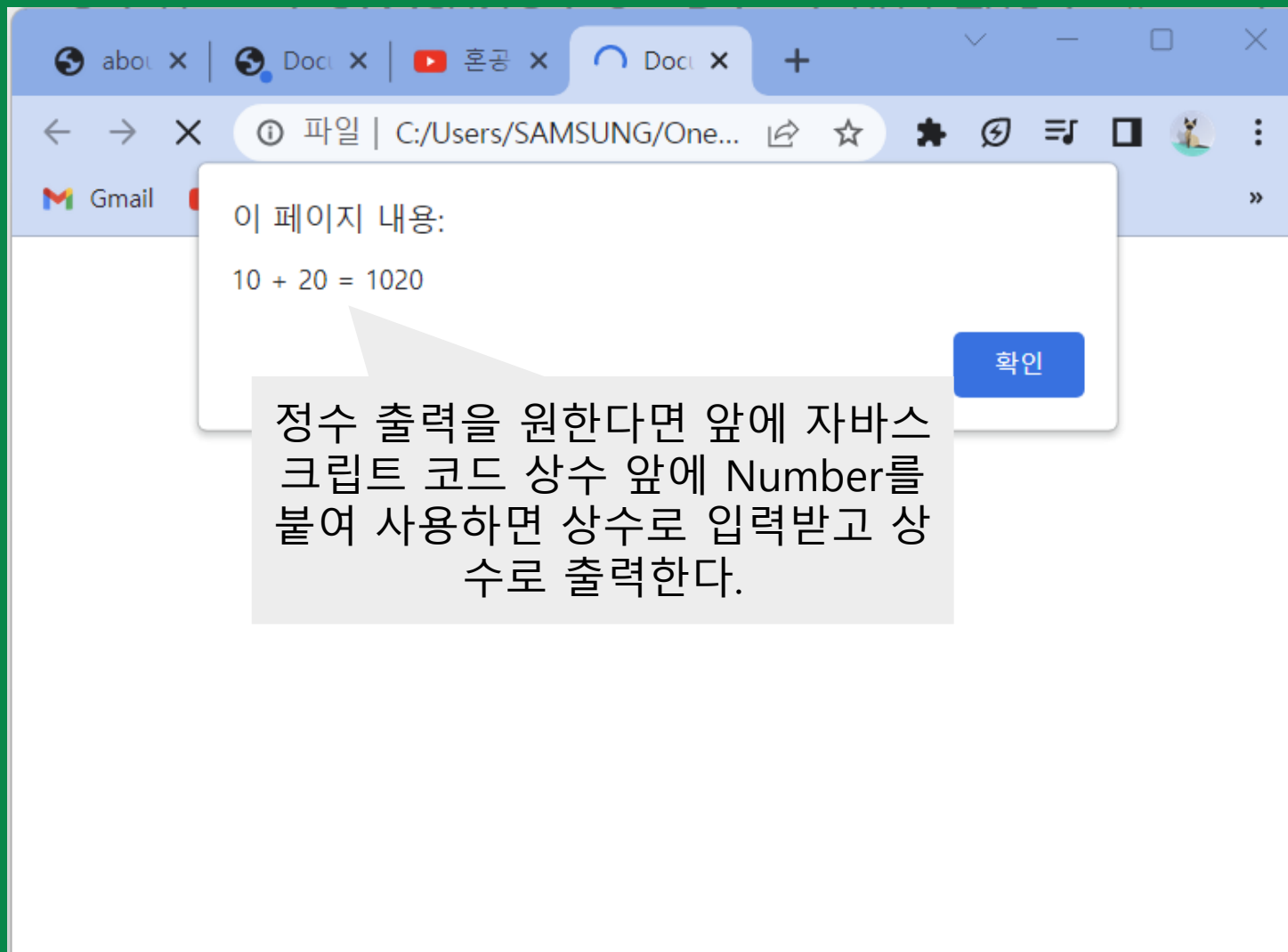
## 7. 자료형 변환



문자열로 입력되기 때문에 문자열로 출력



## 7. 자료형 변환

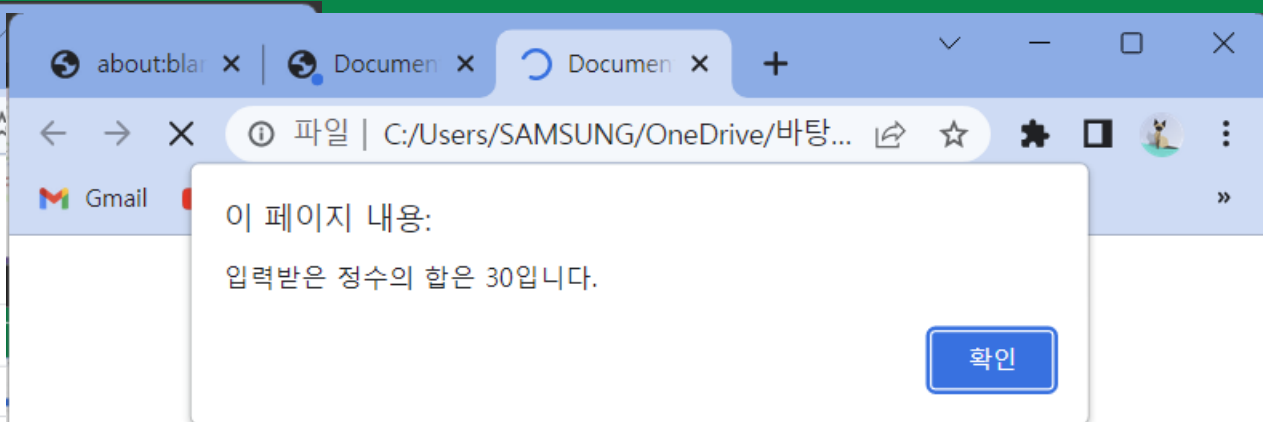
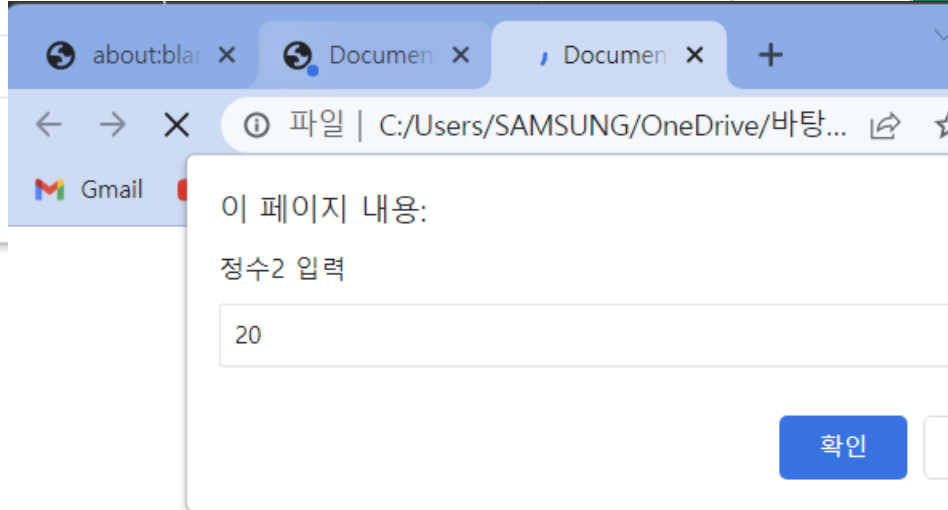
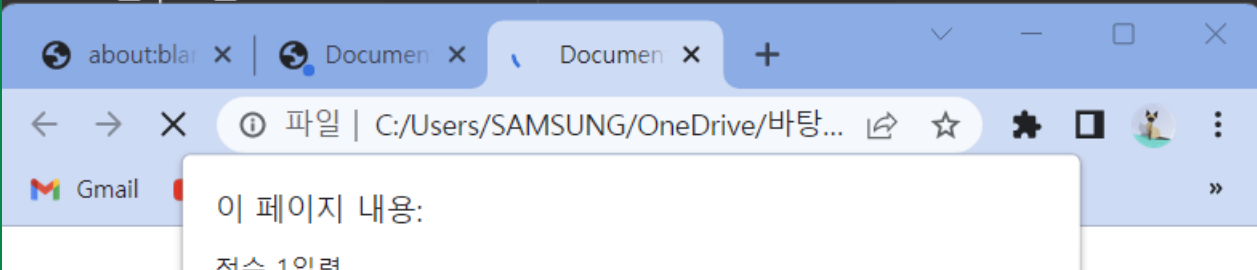


study\_jaba.html X Untitled-1

C: > Users > SAMSUNG > OneDrive > 바탕 화면 > study\_jaba.html > html > head > script

```
1  <!DOCTYPE html>
2  <html Lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta http-equiv="X-UA-Compatible" content="IE=edge">
6      <meta name="viewport" content="width=device-width, initial-scale=1.0">
7      <title>Document</title>
8      <script>
9          const a = Number(prompt("정수 1입력", ""))
10         const b = Number(prompt("정수2 입력", ""))
11
12         alert(`입력받은 정수의 합은 ${a+b}입니다.`)
13
14     </script>
15
16 </head>
17 <body>
18
19 </body>
20 </html>
```

Small preview of the code in the right sidebar.

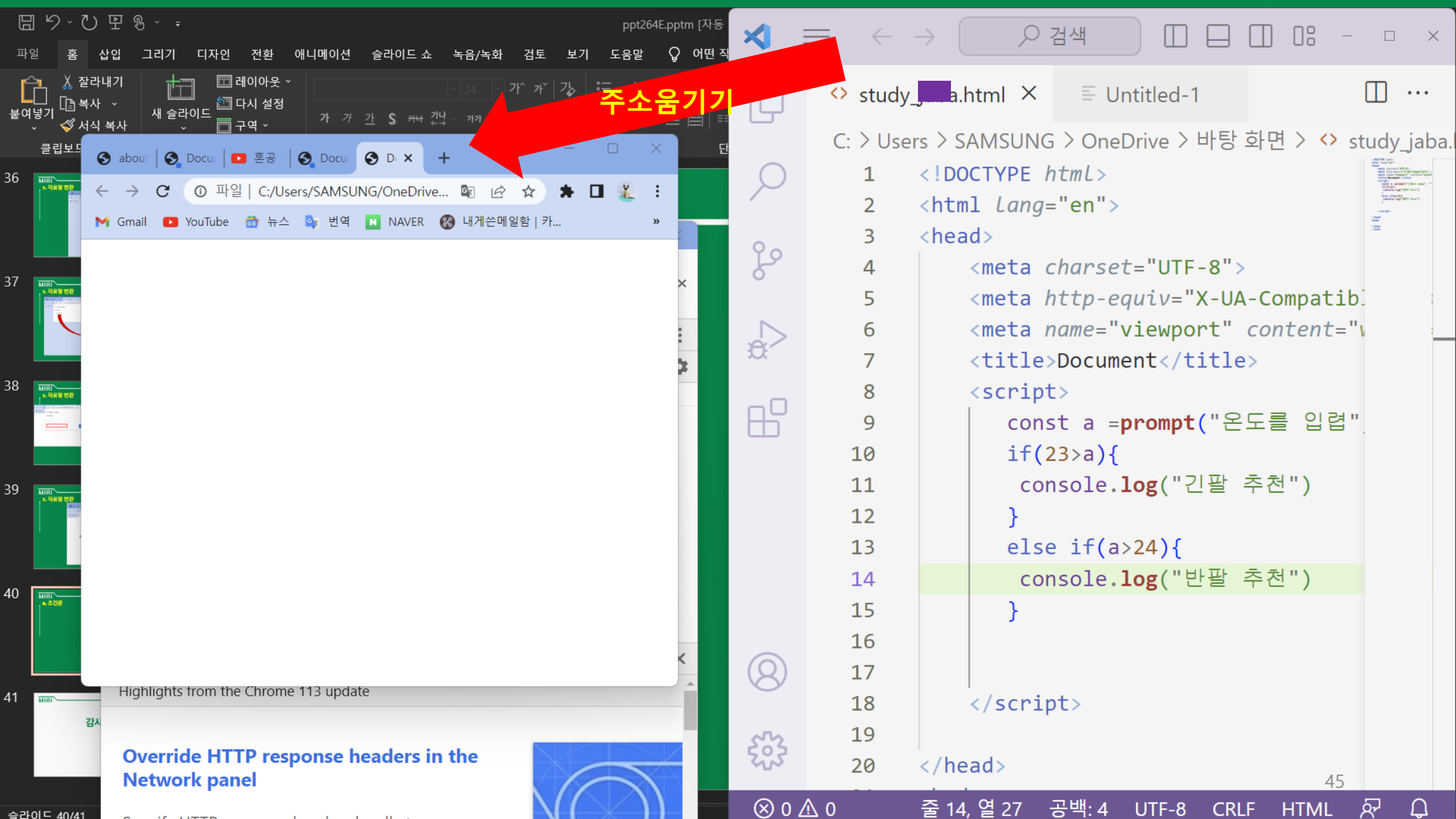


<> study\_j[redacted].html X    ≡ Untitled-1

C: > Users > SAMSUNG > OneDrive > 바탕 화면 > <> study\_jaba.html > html > head > script

```
1  <!DOCTYPE html>
2  <html Lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta http-equiv="X-UA-Compatible" content="IE=edge">
6      <meta name="viewport" content="width=device-width, initial-scale=1.0">
7      <title>Document</title>
8      <script>
9          const a =prompt("온도를 입력", "")
10         if(23>a){
11             console.log("긴팔 추천")
12         }
13         else if(a>24){
14             console.log("반팔 추천")
15         }
16
17     </script>
18
19
20 </head>
```

Small preview of the HTML document on the right side of the editor.



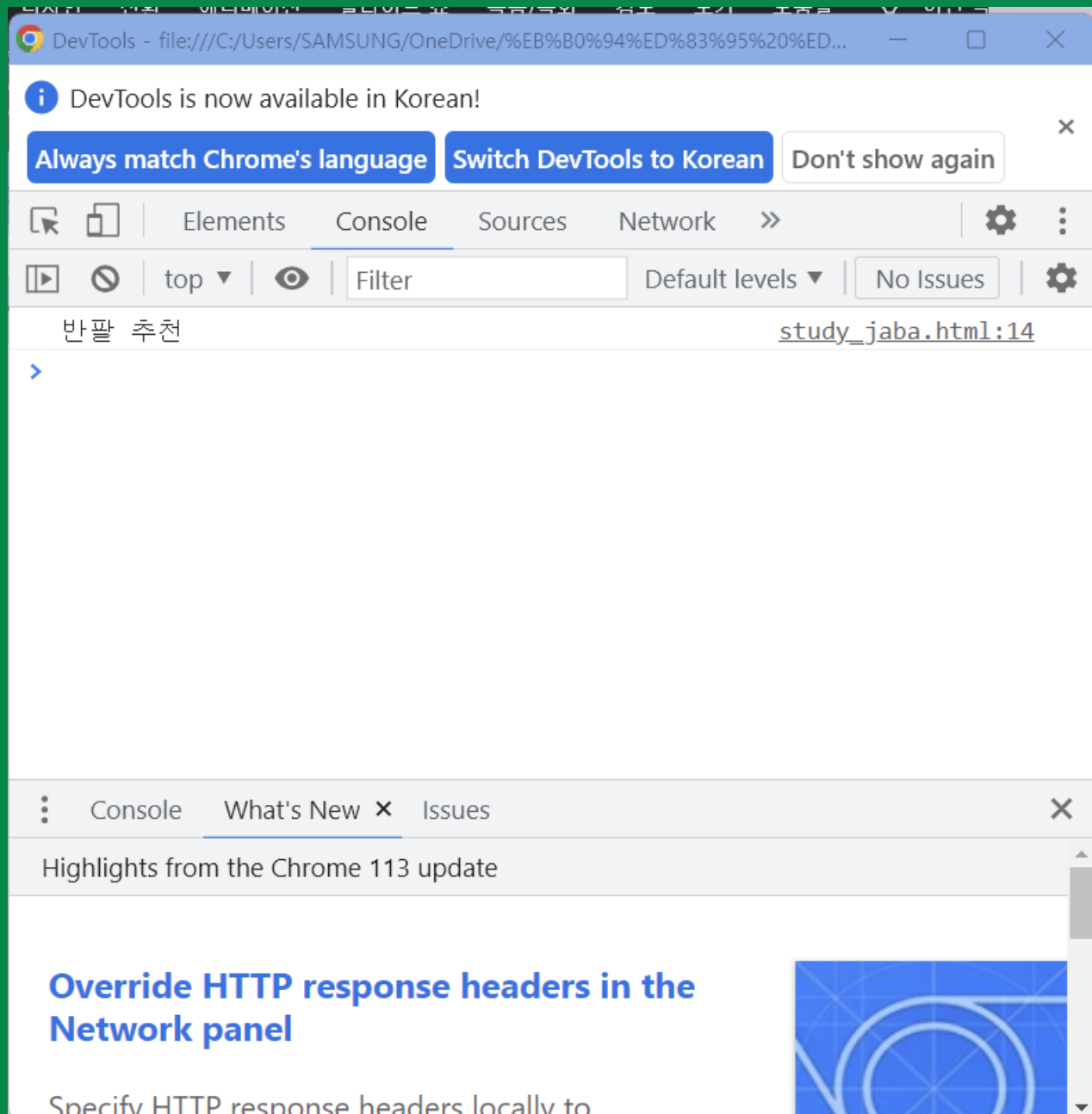
주소 옮기기

C: > Users > SAMSUNG > OneDrive > 바탕 화면 > <> study\_jaba

```
1  <!DOCTYPE html>
2  <html Lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta http-equiv="X-UA-Compatib
6      <meta name="viewport" content="v
7      <title>Document</title>
8      <script>
9          const a =prompt("온도를 입력"
10         if(23>a){
11             console.log("긴팔 추천")
12         }
13         else if(a>24){
14             console.log("반팔 추천")
15         }
16     }
17 }
18 </script>
19
20 </head>
```

Override HTTP response headers in the Network panel

## 8. 조건문



감사합니다.

느낌점