

[디지털 컨버전스] 스마트 콘텐츠와 웹 융합 응용SW 개발자 양성과정

강사 : 이상훈

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JavaScript – prompt

링크 <https://github.com/limcholong/LectureContents/tree/main/javascript/CholongLim/cholongtest/src/main>

컨트롤러 클래스

```
7 @Slf4j
8 @Controller
9 public class TenthJavaScriptTestController {
10
11     @GetMapping("/javascriptPromptTest")
12     public String getJavaScriptPromptTest() {
13         log.info("getJavaScriptPromptTest()");
14
15         return "/javascript/tenth/prompt";
16     }
17 }
```

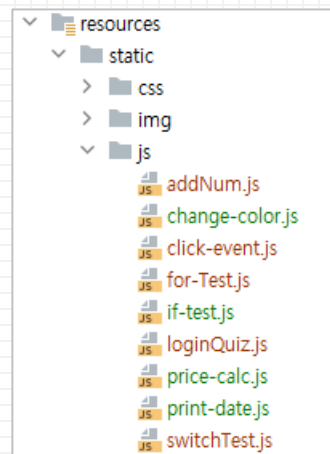
html

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4     <meta charset="UTF-8">
5     <title>Title</title>
6     <link rel="stylesheet" href="/css/js/prompt.css">
7 </head>
8 <body>
9     <h1>자바스크립트의 세계에 오신 것을 환영합니다.</h1>
10
11     <script>
12         var name = prompt("Enter your name: ");
13         document.write("<b><big>" + name + "</big></b> go go go !!!");
14     </script>
15 </body>
16 </html>
```

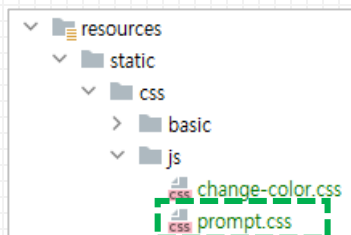
CSS

```
1 body {
2     font-size: 12px;
3     text-align: center;
4 }
```

.js 위치



.css 위치



생성된 html

localhost:7777 내용:

Enter your name:

확인 취소

자바스크립트의 세계에 오신 것을 환영합니다.

가나다 go go go !!!

JavaScript – querySelector

링크 <https://github.com/limcholong/LectureContents/tree/main/javascript/CholongLim/cholongtest/src/main>

컨트롤러 클래스

```
7  @Slf4j
8  @Controller
9  public class TenthJavaScriptTestController {

18  @GetMapping("/querySelectTest")
19  public String getQuerySelectTest() {
20      log.info("getQuerySelectTest()");
21
22      return "/javascript/tenth/querySelect";
23  }
```

html

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <title>Title</title>
6      <link rel="stylesheet" href="/css/js/change-color.css">
7  </head>
8  <body>
9      <h1 id="heading">자바스크립트가 간닷</h1>
10     <p id="text">글자를 클릭하세요!</p>
11
12     <script>
13         // script 안에 자바스크립트를 적는다.
14         // 동적인 작업내용
15         // 자바스크립트 = 스레드 비동기 방식으로 동작한다.
16
17         // 사실 상 모두 비동기 방식으로 동작함
18         // document.querySelector()는
19         // HTML 태그 내에 있는 id를 찾는 역할을 수행함
20         var heading = document.querySelector('#heading');
21
22         // 클릭하면 <<<
23         // heading.style.color를 빨간색으로 바꿔라.
24         heading.onclick = function () {
25             heading.style.color = "red";
26         }
27     </script>
28 </body>
29 </html>
```

CSS

```
1  body {
2      text-align : center;
3  }
4  #heading {
5      color: green;
6  }
7  #text {
8      color: gray;
9      font-size: 15px;
10 }
```

.js 위치

- resources
 - static
 - css
 - img
 - js
 - addNum.js
 - change-color.js
 - click-event.js
 - for-Test.js
 - if-test.js
 - loginQuiz.js
 - price-calc.js
 - print-date.js
 - switchTest.js

.css위치

- resources
 - static
 - css
 - basic
 - js
 - change-color.css
 - prompt.css

생성된 html

자바스크립트가 간닷

글자를 클릭하세요!

Click



자바스크립트가 간닷

글자를 클릭하세요!

JavaScript – querySelector

링크 <https://github.com/limcholong/LectureContents/tree/main/javascript/CholongLim/cholongtest/src/main>

컨트롤러 클래스

```
7  @Slf4j
8  @Controller
9  public class TenthJavaScriptTestController {

25
26  @GetMapping("/divideElementTest")
27  public String getDivideElementTest() {
28      log.info("getDivideElementTest()");
29
30      return "/javascript/tenth/divideElement";
31  }
```

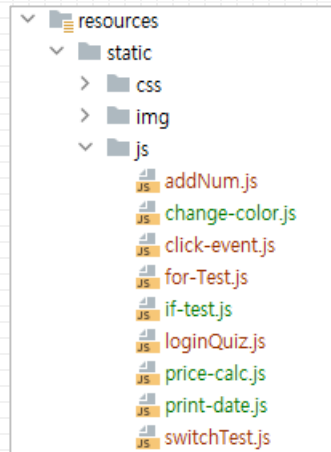
html

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <title>Title</title>
6      <link rel="stylesheet" href="/css/js/change-color.css">
7  </head>
8  <body>
9      <h1 id="heading">자바스크립트가 간닷</h1>
10     <p id="text">글자를 클릭하세요!</p>
11
12     <script src="/js/change-color.js"></script>
13
14 </body>
15 </html>
```

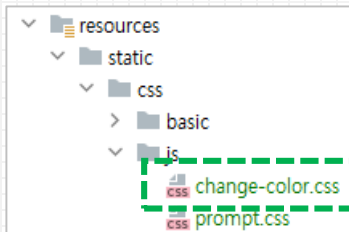
css

```
1  body {
2      text-align : center;
3  }
4  #heading {
5      color: green;
6  }
7  #text {
8      color: gray;
9      font-size: 15px;
10 }
```

.js 위치



.css 위치

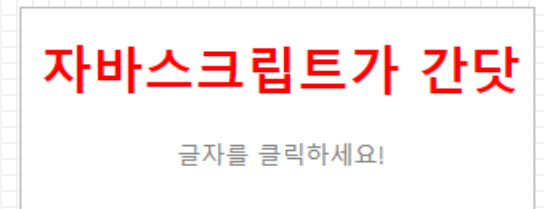
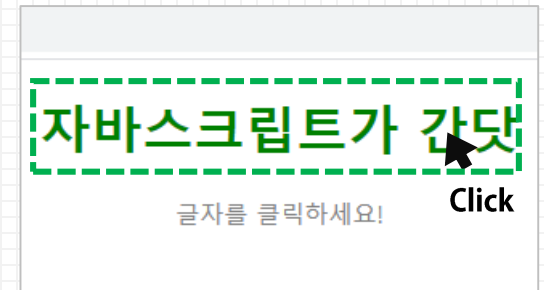


html부분에서 <script></script>를 입력하는 대신,
resources/static/js/change-color.js에
입력해도 똑같은 결과가 나온다.

js

```
1  // script 안에 자바스크립트를 적는다.
2  // 동적인 작업내용
3  // 자바스크립트 = 스레드 비동기 방식으로 동작한다.
4  // 사실 상 모두 비동기 방식으로 동작함
5  var heading = document.querySelector('#heading');
6
7  heading.onclick = function () {
8      heading.style.color = "red";
9  }
10
11 // 자바스크립트 UI에 영향을 줄 수 있는 동작의 데이터를 제어함
```

생성된 html



JavaScript – date

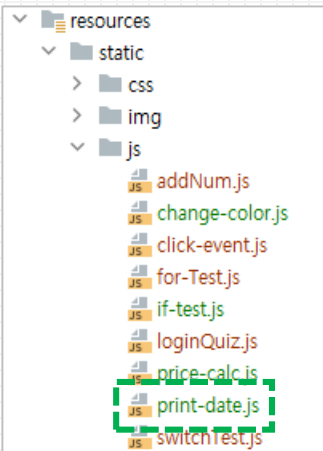
링크 <https://github.com/limcholong/LectureContents/tree/main/javascript/CholongLim/cholongtest/src/main>

컨트롤러 클래스

```
7  @Slf4j
8  @Controller
9  public class TenthJavaScriptTestController {

32  @GetMapping("/javascriptTimeTest")
33  public String getJavaScriptTimeTest() {
34      log.info("getJavaScriptTimeTest()");
35
36      return "/javascript/tenth/jsTime";
37  }
```

.js 위치



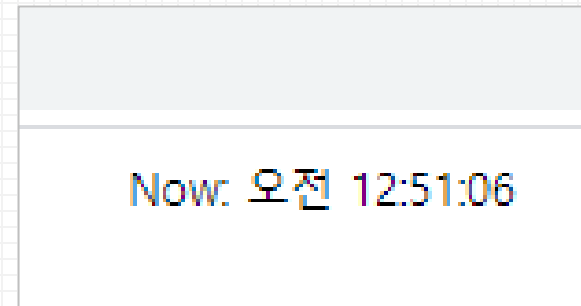
html

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <title>Title</title>
6      <link rel="stylesheet" href="/css/js/prompt.css">
7  </head>
8  <body>
9      <script src="/js/print-date.js"></script>
10 </body>
11 </html>
```

js

```
1  var now = new Date();
2  var display = now.toLocaleTimeString();
3  document.write("Now: " + display);
```

생성된 html



JavaScript – calculator

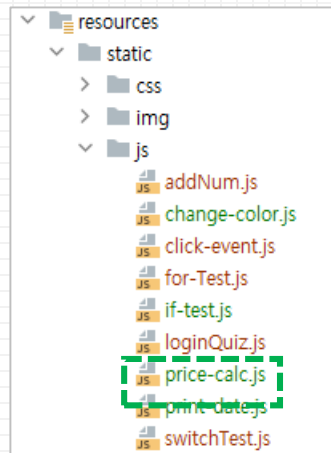
링크 <https://github.com/limcholong/LectureContents/tree/main/javascript/CholongLim/cholongtest/src/main>

컨트롤러 클래스

```
7  @Slf4j
8  @Controller
9  public class TenthJavaScriptTestController {

39  // url에서 비동기 연산이 가능함으로 알았음
40  // 테스트 - saleProductTest
41  @GetMapping("/saleProductTest")
42  public String getSaleProductTest() {
43      log.info("getSaleProductTest()");
44
45      return "/javascript/tenth/saleProduct";
46  }
```

.js 위치



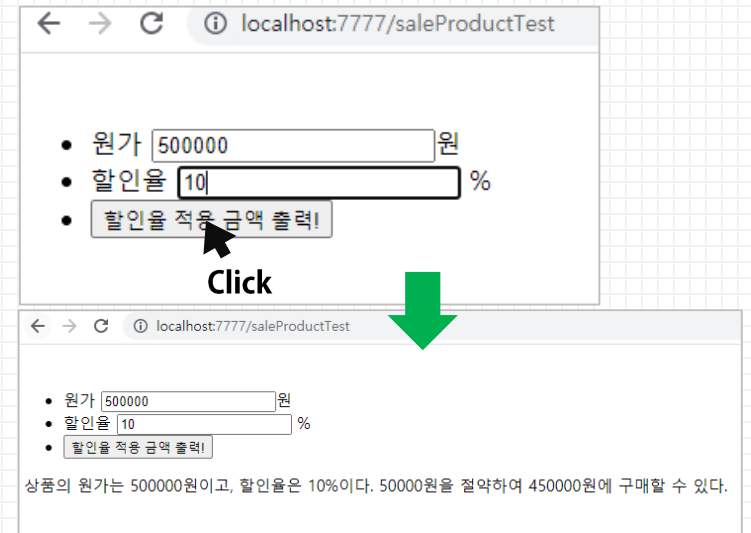
html

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <title>Title</title>
6      <link rel="stylesheet" href="/css/js/sale.css">
7  </head>
8  <body>
9      <div id="contents">
10         <img src="">
11         <ul>
12             <li>
13                 <label for="productPrice">원가</label>
14                 <input type="text" id="productPrice">원
15             </li>
16             <li>
17                 <label for="rate">할인율</label>
18                 <input type="text" id="rate"> %
19             </li>
20             <li>
21                 <button onclick="showPrice()">
22                     할인율 적용 금액 출력!
23                 </button>
24             </li>
25         </ul>
26         <div id="showResult"></div>
27     </div>
28     <script src="/js/price-calc.js"></script>
29 </body>
30 </html>
```

js

```
1  function showPrice () {
2      // 가격 정보를 획득
3      var originPrice = document.querySelector('#productPrice').value;
4      var rate = document.querySelector('#rate').value;
5      // 할인 금액
6      var savedPrice = originPrice * (rate / 100);
7      var resultPrice = originPrice - savedPrice;
8
9      document.querySelector('#showResult').innerHTML =
10         "상품의 원가는 " + originPrice + "원이고, 할인율은 " + rate + "%이다. " +
11         savedPrice + "원을 절약하여 " + resultPrice + "원에 구매할 수 있다.";
12  }
```

생성된 html



JavaScript – If

링크 <https://github.com/limcholong/LectureContents/tree/main/javascript/CholongLim/cholongtest/src/main>

컨트롤러 클래스

```
7  @Slf4j
8  @Controller
9  public class TenthJavaScriptTestController {

48  @GetMapping("/ifTest")
49  public String getIfTest() {
50      log.info("getIfTest()");
51
52      return "/javascript/tenth/ifTest";
53  }
```

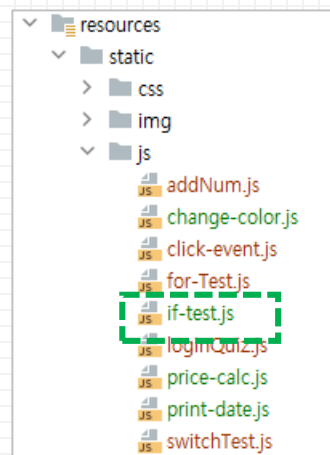
html

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <title>Title</title>
6  </head>
7  <body>
8      <div id="result"></div>
9      <script src="/js/if-test.js"></script>
10 </body>
11 </html>
```

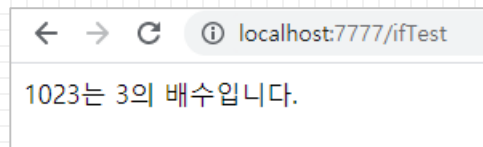
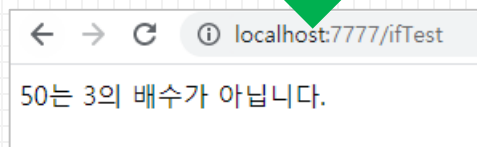
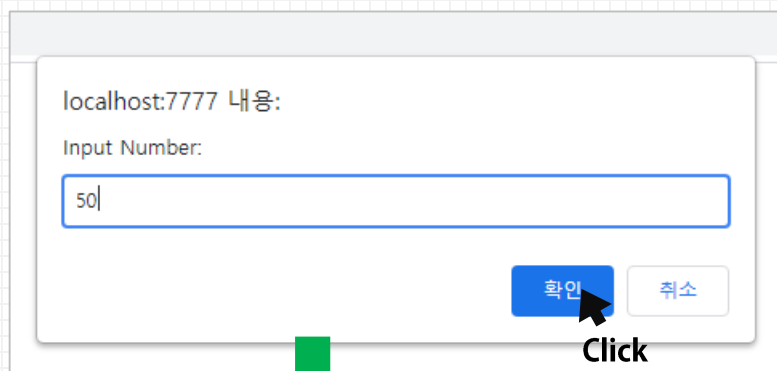
js

```
1  var userNumber = prompt("Input Number: ");
2  var displayArea = document.querySelector('#result');
3
4  if(userNumber != null) {
5      if(userNumber % 3 === 0) {
6          displayArea.innerHTML = userNumber + "는 3의 배수입니다."
7      } else {
8          displayArea.innerHTML = userNumber + "는 3의 배수가 아닙니다."
9      }
10 } else {
11     alert("입력 취소.")
12 }
13
14 // 자바스크립트는 큰따옴표와 작은따옴표 상관없이 사용이 가능하다.
```

.js 위치



생성된 html



JavaScript – Switch

링크 <https://github.com/limcholong/LectureContents/tree/main/javascript/CholongLim/cholongtest/src/main>

컨트롤러 클래스

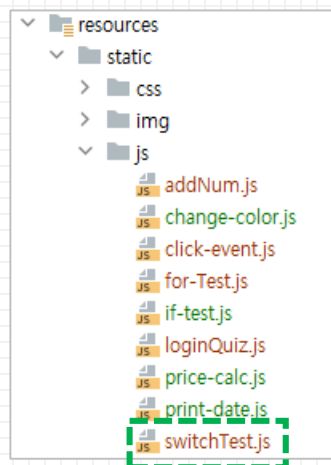
```
7  @Slf4j
8  @Controller
9  public class TenthJavaScriptTestController {

55  @GetMapping("/switchTest")
56  public String getSwitchTest() {
57      log.info("getSwitchTest()");
58
59      return "/javascript/tenth/switchTest";
60  }
```

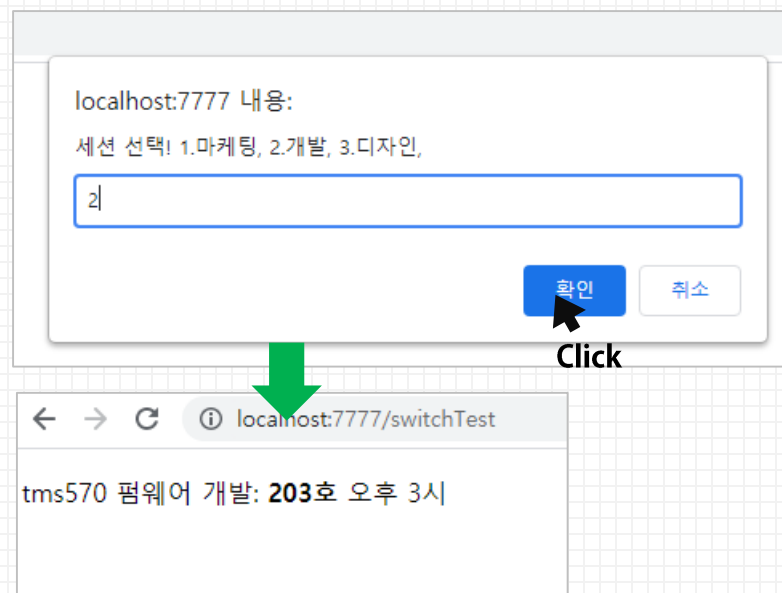
html

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <title>Title</title>
6  </head>
7  <body>
8      <script src="/js/switchTest.js"></script>
9  </body>
10 </html>
```

.js 위치



생성된 html



js

```
1  var session = prompt("세션 선택! 1.마케팅, 2.개발, 3.디자인, ", "1");
2
3  switch (session) {
4      case "1":
5          document.write("<p>마케팅 및 투자 전략: <strong>201호</strong> 오후 1시</p>");
6          break;
7      case "2":
8          document.write("<p>tms570 펌웨어 개발: <strong>203호</strong> 오후 3시</p>");
9          break;
10     case "3":
11         document.write("<p>UI/UX 디자인의 진수: <strong>250호</strong> 오전 10시</p>");
12         break;
13     default:
14         alert("독바로 입력하시오.")
15         break;
16 }
17
18 // document.write 란 자바에서 sout와 똑같은 역할을 한다.
```


JavaScript – For

링크 <https://github.com/limcholong/LectureContents/tree/main/javascript/CholongLim/cholongtest/src/main>

컨트롤러 클래스

```
7  @Slf4j
8  @Controller
9  public class TenthJavaScriptTestController {

62  @GetMapping("/forTest")
63  public String getForTest() {
64      log.info("getForTest()");
65
66      return "/javascript/tenth/forTest";
67  }
```

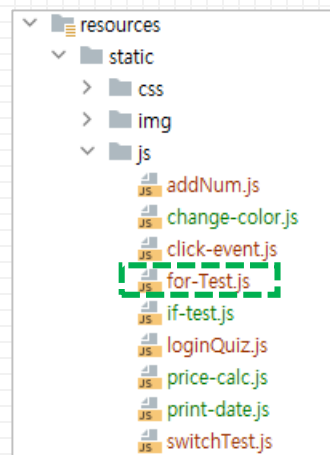
html

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <title>Title</title>
6  </head>
7  <body>
8      <script src="/js/for-Test.js"></script>
9  </body>
10 </html>
```

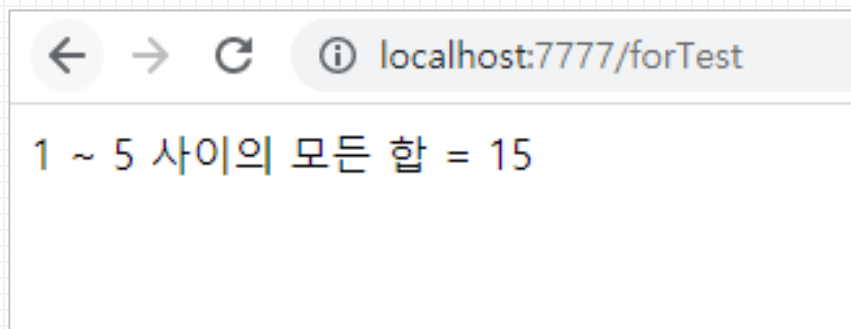
js

```
1  var sum = 0;
2
3  for (var i = 1; i < 6; i++) {
4      sum += i;
5  }
6
7  document.write("1 ~ 5 사이의 모든 합 = " + sum);
```

.js 위치



생성된 html



JavaScript – Add

링크 <https://github.com/limcholong/LectureContents/tree/main/javascript/CholongLim/cholongtest/src/main>

컨트롤러 클래스

```
7 @Slf4j
8 @Controller
9 public class TenthJavaScriptTestController {

69 @GetMapping("/addNumber")
70 public String getAddNumber() {
71     log.info("getAddNumber()");
72
73     return "/javascript/tenth/addNum";
74 }
```

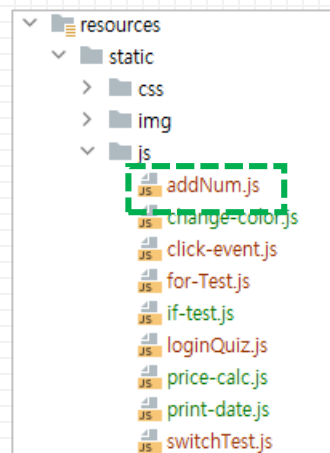
html

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4     <meta charset="UTF-8">
5     <title>Title</title>
6 </head>
7 <body>
8     <button onclick="addNumber()">더해볼까?</button>
9
10    <script src="/js/addNum.js"></script>
11 </body>
12 </html>
```

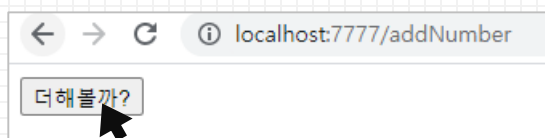
js

```
1 function addNumber () {
2     var num1 = parseInt(prompt("첫 번째 숫자는?"));
3     var num2 = parseInt(prompt("두 번째 숫자는?"));
4     var result = add(num1,num2);
5
6     document.write("<p>" + num1 + " + " + num2 + " = " + result + "</p>" );
7 }
8
9 function add(a,b) {
10     var sum = a + b;
11     return sum;
12 }
```

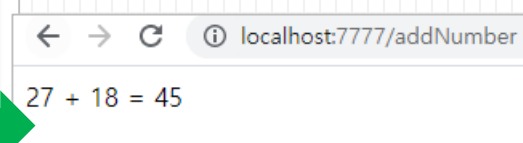
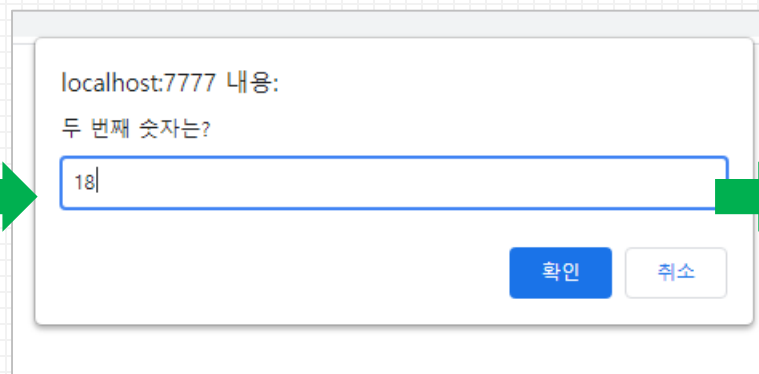
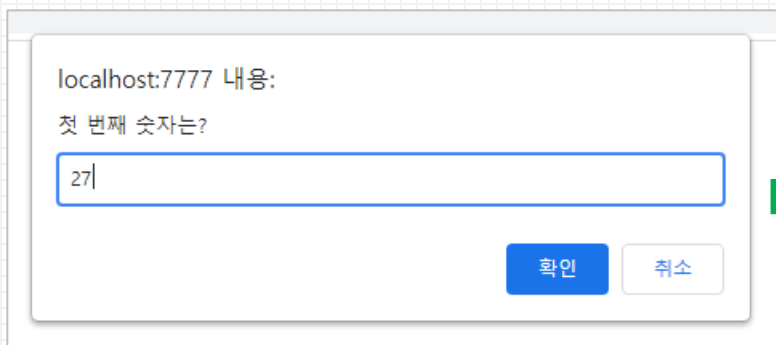
.js 위치



생성된 html



Click



JavaScript – mouseover

링크 <https://github.com/limcholong/LectureContents/tree/main/javascript/CholongLim/cholongtest/src/main>

컨트롤러 클래스

```
7  @Slf4j
8  @Controller
9  public class TenthJavaScriptTestController {

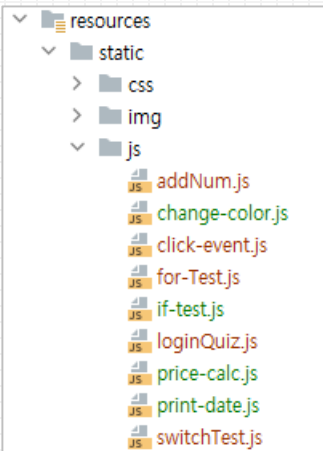
76  @GetMapping("/mouseOverTest")
77  public String getMouseOverTest() {
78      log.info("getMouseOverTest()");
79
80      return "/javascript/tenth/mouseOver";
81  }
```

html

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <title>Title</title>
6  </head>
7  <body>
8      
9      <button onmouseover="alert('마우스를 치워주세요.')">마우스를 올려주세요.</button>
10     <div>
11         <h4>Picture</h4>
12         <p>Test</p>
13     </div>
14 </body>
15 </html>
```

생성된 html

.js 위치



마우스를 올려주세요.

Click

localhost:7777 내용:
마우스를 치워주세요.

확인

JavaScript – onclick / showDetail () / hideDetail()

링크 <https://github.com/limcholong/LectureContents/tree/main/javascript/CholongLim/cholongtest/src/main>

컨트롤러 클래스

```
7  @Slf4j
8  @Controller
9  public class TenthJavaScriptTestController {

83
84  @GetMapping("/invisibilityTest")
85  public String getInvisibilityTest() {
86      log.info("getInvisibilityTest()");
87
88      return "/javascript/tenth/invisibility";
89  }
```

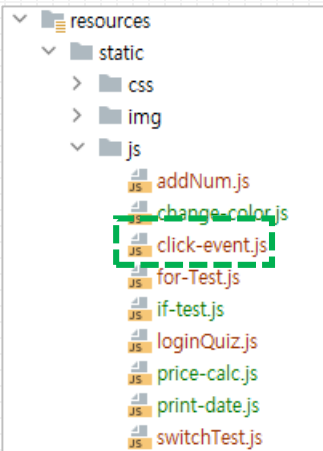
html

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <title>Title</title>
6  </head>
7  <body>
8      
9      <button id="open" onclick="showDetail()">클릭하면 보여요.</button>
10
11     <div id="desc">
12         <h4>Picture</h4>
13         <p>Test</p>
14         <h3>아래 버튼을 누르면 사라집니다.</h3>
15         <button onclick="hideDetail()">클릭하면 사라져요.</button>
16     </div>
17     <script src="/js/click-event.js"></script>
18 </body>
19 </html>
```

js

```
1  function showDetail () {
2      document.querySelector('#desc').style.display = "block";
3      document.querySelector('#open').style.display = "none";
4  }
5
6  function hideDetail () {
7      document.querySelector('#desc').style.display = "none";
8      document.querySelector('#open').style.display = "block";
9  }
10
11  // display에 block가 들어가면 눈에서 사라진다 (내용이 사라지는 것은 아님)
12  // 인터넷에서 물건 상세페이지 만들때 ㅜ의 기능이다.
13  // 누르면 밑으로 내용이 더 나오고, ㅗ누르면 다시 접히다.
```

.js 위치



생성된 html



생성된 html



클릭하면 보여요

Click



Picture

Test

아래 버튼을 누르면 사라집니다.

클릭하면 사라져요

Click