

웹프로그래밍 기초(5강)



1. 용어 정리

jquery : 자바스크립트 라이브러리 / 자유소프트웨어 / 폭넓은 브라우저 지원

ajax 비동기적인 웹페이지 제작을 위한 기법

json Javascript Object Notation / 키-값 쌍으로 이루어진 데이터 오브젝트

CDN : Contents Delivery Network / 자료를 효율적으로 전달하기 위해 여러 노드를 가진 네트워크에 데이터를 저장하여 제공하는 시스템

제이쿼리식 셀렉터

id

`$("#id_name")`

class

`$(".class_name")`

element

`$("element_name")`

현재 객체

`$(this)`

제이쿼리식 셀렉터

```
$("#id_name").on(  
  "click",function(){  
    console.log('click!');  
  }).on("mouseover",function(){  
    console.log('enter!');  
  });
```

끼워넣기

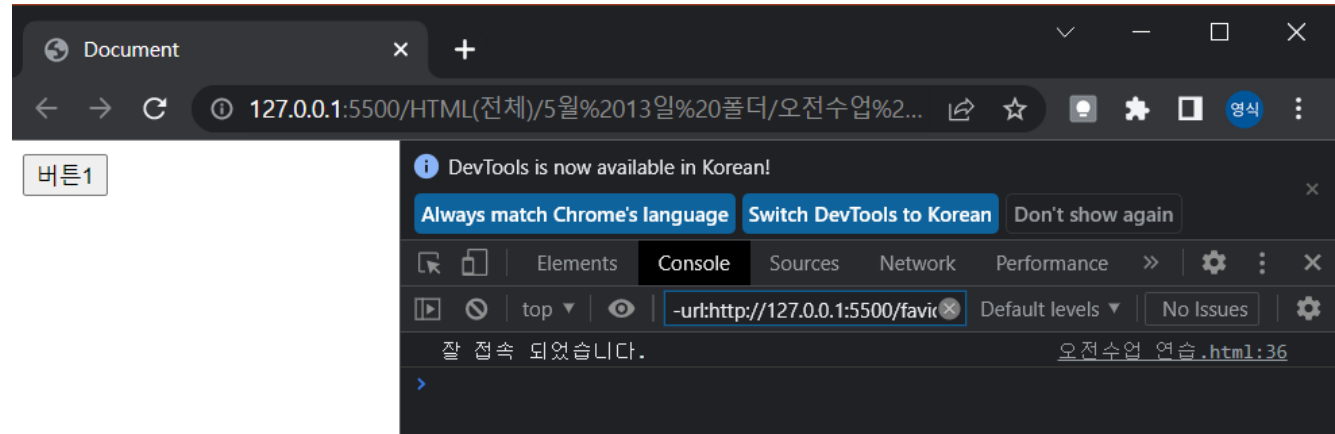
`$(target).append(source)` //셀렉터의 뒤에
`$(target).prepend(source)` //셀렉터의 앞에
`$(source).appendTo(target)` //셀렉터의 뒤에
`$(source).prependTo(target)` //셀렉터의 앞에

엘리먼트 옵션 변경

```
$(target).attr("바꿀 옵션","값") //값 변경  
$(target).attr("값 확인할 옵션") //값 확인  
$("a").attr("src","http://naver.com")
```

오전수업 연습

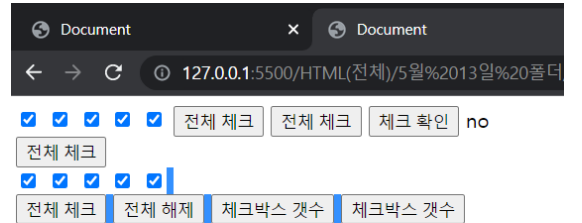
```
1 <!DOCTYPE html>
2 <html lang="en">
3
4 <head>
5   <meta charset="UTF-8">
6   <meta http-equiv="X-UA-Compatible" content="IE=edge">
7   <meta name="viewport" content="width=device-width, initial-scale=1.0">
8   <title>Document</title>
9   <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.min.js"></script>
10 </head>
11
12 <body>
13
14   <script>
15     $(function () {
16       $('#button1').click(function () {
17         console.log('버튼');
18       });
19
20       $('#button1').click(function () {
21         console.log('여러 방식');
22       }).mouseover(function () {
23         console.log('마우스 오버');
24       }).mouseleave(function () {
25         console.log('마우스 떠났어!');
26       });
27     });
28
29   </script>
30
31   <script>
32
33     $(function () {
34       console.log("잘 접속 되었습니다.");
35
36       $('#button1').click(function () {
37         console.log("버튼1");
38       });
39
40       document.getElementById('button1').addEventListener('click', function () {
41         console.log('addEventListener 클릭');
42       });
43
44       $('#button1').on('click', function () {
45         console.log('jQuery 버튼 클릭');
46       });
47     });
48   </script>
49
50   <button id="button1">버튼1</button>
51
52 </body>
53
54
55
56
```



오후수업 연습

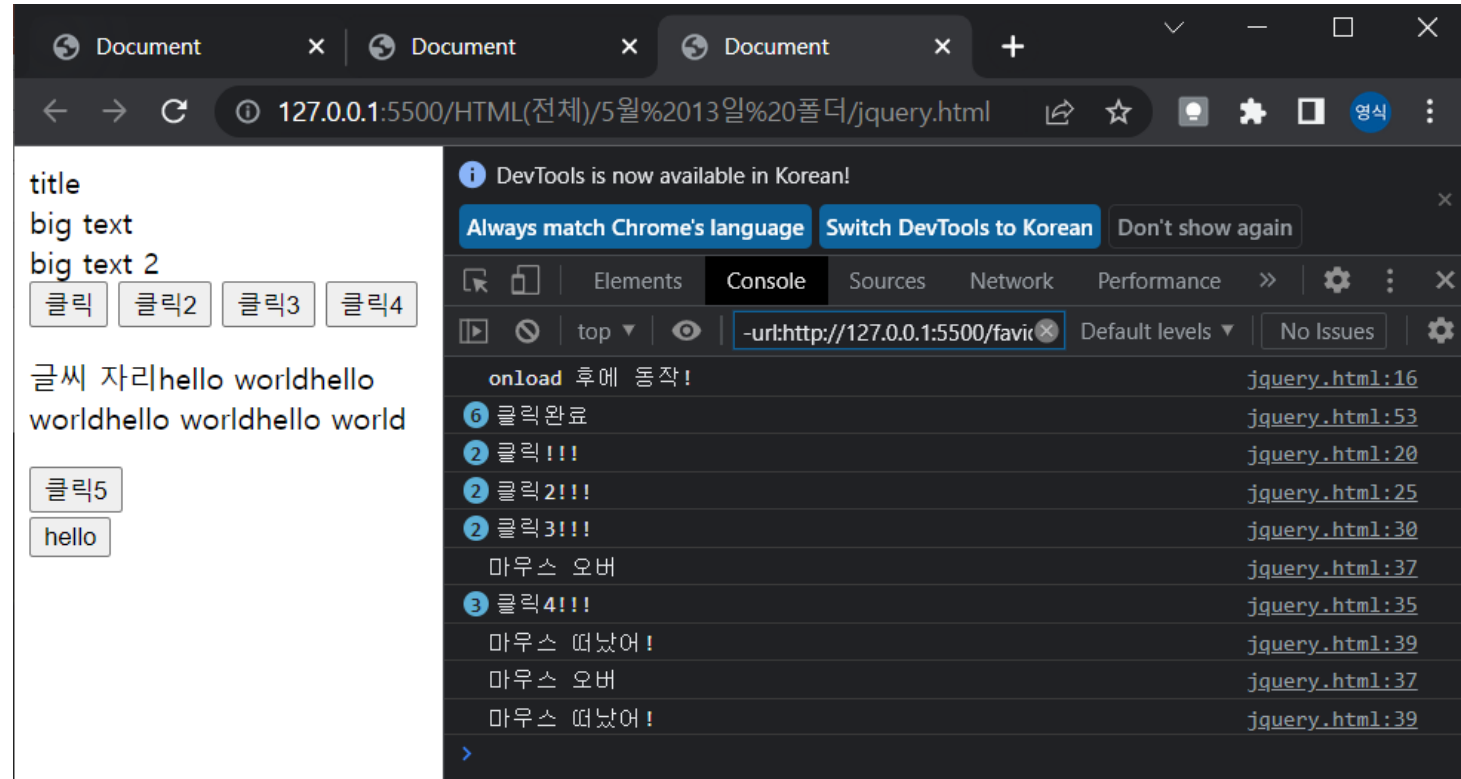
```
1 <!DOCTYPE html>
2 <html lang="en">
3
4 <head>
5   <meta charset="UTF-8">
6   <meta http-equiv="X-UA-Compatible" content="IE=edge">
7   <meta name="viewport" content="width=device-width, initial-scale=1.0">
8   <title>Document</title>
9   <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.min.js"></script>
10 </head>
11
12 <body>
13
14   <script>
15     $(function () {
16       $('#all_check').click(function () {
17         $(':checkbox[name=mycheck]').each(function () {
18           this.checked = true;
19         });
20       });
21
22       $('#check_number_button').click(function () {
23         if ($(':checkbox[name=mycheck]').is('checked') == true) {
24           $('#result').text('ok');
25         } else {
26           $('#result').text('no');
27         }
28       });
29
30       $('#box').mouseover(function () {
31         $(this).animate({
32           left: '+=100px'
33         }).animate({
34           top: '+=100px'
35         });
36       });
37
38       $('#box').click(function () {
39         setTimeout(function () {
40           $(this).animate({
41             left: '+=100px'
42           }).animate({
43             top: '+=100px'
44           });
45         });
46       });
47
48       $('#all_check_on').click(function () {
49         $(':checkbox[name=mycheck]').prop('checked', true);
50       });
51
52       $('#all_check_close').click(function () {
53         $(':checkbox[name=mycheck]').prop('checked', false);
54       });
55
56     });
```

```
56
57
58     $('#checkbox_number').click(function () {
59       console.log('number1');
60     }).mouseover(function () {
61       console.log('number2');
62     }).mouseleave(function () {
63       console.log('number3');
64     });
65
66     $('#checkbox_number').click(function () {
67       $('#checkbox_number2').attr('name', '12345');
68     });
69
70   });
71 </script>
72
73 <style>
74   #box {
75     display: inline-block;
76     position: absolute;
77     width: 100px;
78     height: 100px;
79     background-color: #pink;
80     border: 1px solid black;
81   }
82 </style>
83
84 <form action="">
85   <input type="checkbox" name="mycheck" id="">
86   <input type="checkbox" name="mycheck" id="">
87   <input type="checkbox" name="mycheck" id="">
88   <input type="checkbox" name="mycheck" id="">
89   <input type="checkbox" name="mycheck" id="">
90   <button id="all_check">전체 체크</button>
91   <input type="button" id="all_check" value="전체 체크">
92   <input type="button" id="check_number_button" value="체크 확인">
93   <span id="result"></span>
94 </form>
95
96 <button id="all_check">전체 체크</button>
97
98 <form action="">
99   <input type="checkbox" name="mycheck" id="">
100  <input type="checkbox" name="mycheck" id="">
101  <input type="checkbox" name="mycheck" id="">
102  <input type="checkbox" name="mycheck" id="">
103  <input type="checkbox" name="mycheck" id=""><br>
104  <input type="button" id="all_check_on" value="전체 체크">
105  <input type="button" id="all_check_close" value="전체 해제">
106  <input type="button" id="checkbox_number" value="체크박스 갯수">
107  <input type="button" id="checkbox_number2" name="zzz" value="체크박스 갯수">
108
109 </form>
```



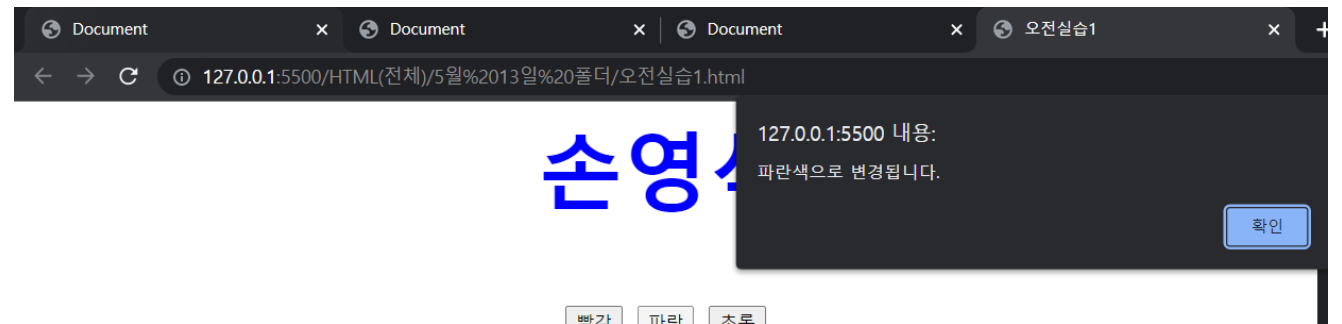
1. jQuery 연습

```
14 // onload
15 $(function () {
16     console.log('onload 후에 동작!');
17
18     // 클릭 이벤트 설정
19     $('#button1').click(function () {
20         console.log('클릭!!!');
21     });
22
23     // 기존 javascript 클릭 이벤트 설정
24     document.getElementById('button2').addEventListener('click', function () {
25         console.log('클릭2!!!');
26     });
27
28     // 기존 방식과 비슷한 방식
29     $('#button3').on('click', function () {
30         console.log('클릭3!!!');
31     });
32
33     // 이벤트 체인
34     $('#button4').click(function () {
35         console.log('클릭4!!!');
36     }).mouseover(function () {
37         console.log('마우스 오버!');
38     }).mouseleave(function () {
39         console.log('마우스 떠났어!');
40     });
41
42     $('#button5').click(function () {
43         // $('#text').html('<b>html</b>');
44         // $('#text').text('<b>html</b>');
45         $('#text').append('hello')
46             .append(' world')
47             .attr('class', 'hello')
48             .attr('name', 'world');
49
50         $('.big-text').attr('name', 'hello');
51     });
52     $('#test').click(function () {
53         console.log('클릭완료!');
54     });
55
56 });
57
58 </script>
59
60 <div id="title">title</div>
61 <div class="big-text">big text</div>
62 <div class="big-text">big text 2</div>
63 <button id="button1">클릭</button>
64 <button id="button2">클릭2</button>
65 <button id="button3">클릭3</button>
66 <button id="button4">클릭4</button>
67
68 <p id="text">글씨 자리</p>
69 <button id="button5">클릭5</button><br>
70
```



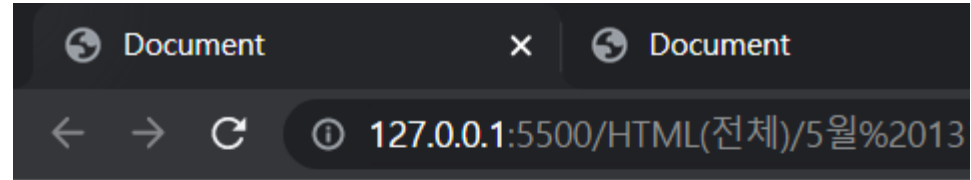
오전 실습하기 - 1

```
8 <body>
9 <style>
10   body {
11     text-align: center;
12     font-size: xx-large;
13   }
14
15   .red {
16     color: red;
17   }
18
19   .blue {
20     color: blue;
21   }
22
23   .green {
24     color: green;
25   }
26 </style>
27
28 <script>
29   $(function () {
30     let text = prompt('내용을 입력해주세요.');
```



오전 실습하기 3

```
5 <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.min.js"></script>
6
7 </head>
8
9 <body>
10 <style>
11 #container {
12   width: 250px;
13 }
14
15 #header {
16   background-color: rgb(125, 125, 125);
17   color: rgb(0, 0, 0);
18   padding: 10px;
19 }
20
21 #content {
22   padding: 10px;
23   background-color: rgb(227, 227, 231);
24 }
25
26 #article {
27   background-color: rgb(55, 82, 151);
28   color: white;
29   padding: 10px;
30 }
31
32 div #click {
33   display: inline-block;
34   position: absolute;
35   width: 70px;
36   height: 25px;
37   background-color: rgb(125, 125, 125);
38   color: rgb(0, 0, 0);
39   padding: 3px;
40 }
41 </style>
42
43 <script>
44 $(function () {
45   $('#click').click(function () {
46     var text = prompt("기사 입력");
47     $("#content").append(text + '<br><br>');
48   });
49 })
50 </script>
51
52 </script>
53
54 <div id="container">
55 <div id="header">
56   기사 등록하기
57 </div>
58 <div id="content">
59
60
```



기사 등록하기

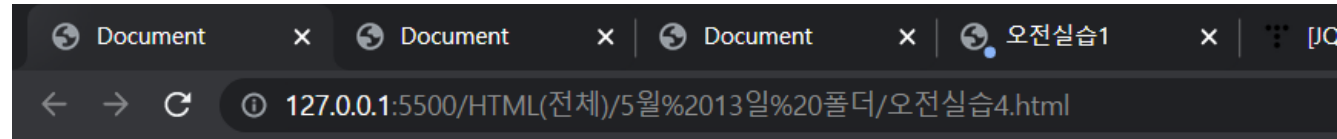
박지성 역시 축구는 MBC죠...

안정환 축구 중계는 어디?

등록하기

오전 실습하기 - 4

```
1 <html>
2
3 <head>
4   <title>오전실습4</title>
5   <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.min.js"></script>
6 </head>
7
8 <body>
9
10  <style>
11    div {
12      display: inline-block;
13      width: 200px;
14      height: 50px;
15      margin: 10px;
16      border: 1px solid black;
17      text-align: center;
18      line-height: 50px;
19    }
20
21    .box {
22      background-color: grey;
23      color: white;
24    }
25
26    .click {
27      background-color: white;
28      color: black;
29    }
30  </style>
31
32  <script>
33    $(function () {
34      $('div').mousedown(function () {
35        $('div').attr('class', 'box');
36        $(this).attr('class', 'click');
37      });
38    });
39  </script>
40
41  <div class="box" id="div1">html</div>
42  <div class="box" id="div2">css</div>
43  <div class="box" id="div3">javascript</div>
44
45 </body>
46
47 </html>
```



html

css

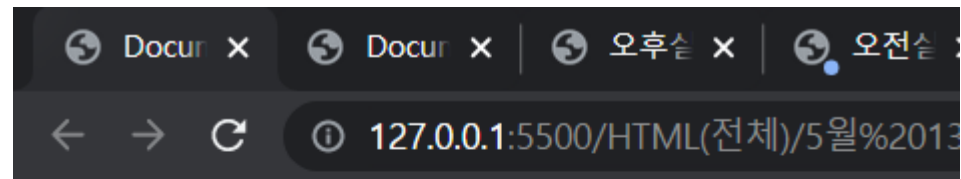
javascript

오후 실습하기 - 1

```

1 <html>
2
3 <head>
4   <title>오후실습1</title>
5   <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.min.js"></script>
6 </head>
7
8 <body>
9   <script>
10     $("input[type='checkbox']").click(function () {
11       let num = $("input:checked[type='checkbox']").length;
12
13       if (num < 3) {
14         alert("3개이상 선택하세요");
15       }
16     });
17   </script>
18
19   <form>
20     아이디 &nbsp;&nbsp;&nbsp;<input type="text" size="20px">
21     <br>
22     비밀번호 &nbsp;<input type="text" size="20px">
23     <br>
24     성별 <input type="radio" value="1" name="남자"> 남자
25     <input type="radio" value="2" name="여자"> 여자
26     <br>
27     직업 <select name='fruits'>
28       <option value='' selected></option>
29       <option value='dev'>개발자</option>
30       <option value='professor'>학생</option>
31       <option value='student'>기타</option>
32     </select>
33     <br>
34     <div>
35       취미
36       <input type="checkbox">운동
37       <input type="checkbox">TV보기
38       <input type="checkbox">음악듣기
39       <br>
40       <input type="checkbox">게임하기
41       <input type="checkbox">잠자기
42       <input type="checkbox">명때리기
43     </div>
44
45     <button>취소</button>
46     <button>회원가입</button>
47   </form>
48 </body>
49
50 </html>

```



아이디

비밀번호

성별 ☒ 남자 ☐ 여자

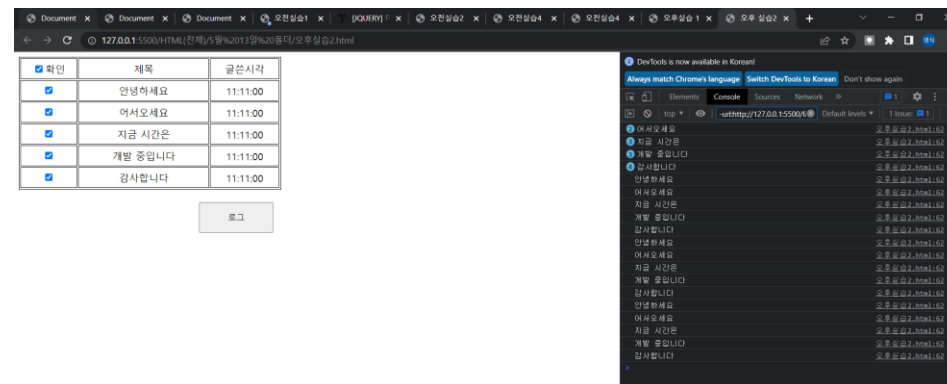
직업

취미 ☐ 운동 ☐ TV보기 ☐ 음악듣기
☐ 게임하기 ☐ 잠자기 ☒ 멍때리기

크롬 구현 화면

오후 실습하기 - 2

```
1 <html>
2
3 <head>
4   <title>오후 실습2</title>
5   <script src="https://code.jquery.com/jquery-3.6.0.js"></script>
6 </head>
7
8 <body>
9
10  <style>
11    table {
12      border: 1px solid black;
13      text-align: center;
14    }
15
16    td {
17      border: 1px solid black;
18      padding: 5px;
19    }
20
21    .checkbox_table {
22      width: 80px;
23    }
24
25    .title {
26      width: 200px;
27    }
28
29    .time {
30      width: 100px;
31    }
32
33    #log {
34      position: absolute;
35      width: 120px;
36      height: 50px;
37      margin-top: 20px;
38      left: 300px;
39    }
40  </style>
41
42  <script>
43    $(function () {
44      $('input:checkbox[name=check_all]').change(function () {
45        if (this.checked) {
46          $('input:checkbox[name=check]').prop("checked", true);
47        } else {
48          $('input:checkbox[name=check]').prop("checked", false);
49        }
50      });
51
52      $('input:checkbox[name=check]').change(function () {
53        if (!$('input:checkbox[name=mycheck]').is(":checked")) {
54          $('input:checkbox[name=check_all]').prop("checked", false);
55        }
56      });
57
58      $('#log').click(function () {
59        $('input:checkbox[name=check]').each(function () {
60          if (this.checked) {
61            let idx = $('input:checkbox[name=check]').index(this);
62            console.log(`${this.title}[idx + 1].textContent\n`);
63          }
64        });
65      });
66    });
67  </script>
68
69  <form action="">
70    <table>
71      <tr>
72        <td class="checkbox_table">
73          <input type="checkbox" name="check_all" /> 확인
74        </td>
75        <td class="title">제목</td>
76        <td class="time">끝시간</td>
77      </tr>
78      <tr>
79        <td class="checkbox_table">
80          <label><input type="checkbox" name="check" /></label>
81        </td>
82        <td class="title">안녕하세요</td>
83        <td class="time">11:11:00</td>
84      </tr>
85      <tr>
86        <td class="checkbox_table">
87          <label><input type="checkbox" name="check" /></label>
88        </td>
89        <td class="title">어서오세요</td>
90        <td class="time">11:11:00</td>
91      </tr>
92      <tr>
93        <td class="checkbox_table">
94          <label><input type="checkbox" name="check" /></label>
95        </td>
96        <td class="title">지금 시간은</td>
97        <td class="time">11:11:00</td>
98      </tr>
99      <tr>
100       <td class="checkbox_table">
101         <label><input type="checkbox" name="check" /></label>
102       </td>
103       <td class="title">개발 중입니다</td>
104       <td class="time">11:11:00</td>
105     </tr>
106     <tr>
107       <td class="checkbox_table">
108         <label><input type="checkbox" name="check" /></label>
109       </td>
110       <td class="title">감사합니다</td>
111       <td class="time">11:11:00</td>
112     </tr>
113   </table>
```



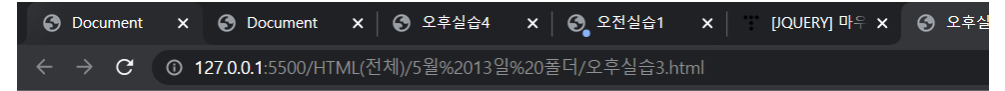
VSCode 내용

크롬 구현 화면

오후 실습하기 - 3 (뿌까 움직이기)

```
1 <html>
2
3 <head>
4   <title>오후실습3</title>
5   <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.min.js"></script>
6 </head>
7
8 <body>
9   <style>
10    div {
11      display: flex;
12      width: 800px;
13      height: 700px;
14      border: 1px solid black;
15      justify-content: center;
16      align-items: center;
17    }
18
19    img {
20      position: absolute;
21      width: 100px;
22      height: 100px;
23    }
24  </style>
25  <script>
26    $(function () {
27      $('#div').mouseover(function () {
28        $("img").animate({ left: '-=100px' });
29        $("img").animate({ top: '-=100px' });
30        $("img").animate({ left: '+=100px' });
31        $("img").animate({ top: '+=100px' });
32      });
33    });
34  </script>
35  <div id="div">
36    
37  </div>
38 </body>
39
40 </html>
```

VSCode 내용

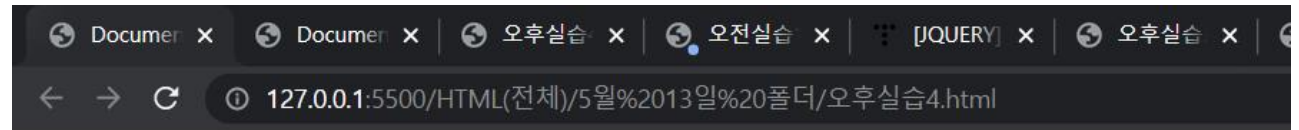


크롬 구현 화면

오후 실습하기 - 4 (슈퍼마리오 키보드 눌러도 안 올라가네요)

```
1 position: absolute;
2 top: 550px;
3 left: 150px;
4 width: 200px;
5 }
6
7 .bomber {
8   position: absolute;
9   top: 300px;
10  left: 600px;
11  width: 80px;
12  animation-name: testline;
13  animation-iteration-count: 5;
14  animation-duration: 3s;
15 }
16
17 @keyframes testline {
18   0% {
19     left: 800px;
20     top: 300px;
21   }
22
23   100% {
24     left: 0px;
25     top: 300px;
26   }
27 }
28
29 </style>
30
31 <script>
32 $(function () {
33   $('div1').keydown(function (e) {
34     if (e.keyCode == 32) { //원격
35       $('.supermario').animate({ 'top': '-=180px' });
36       $('.supermario').animate({ 'top': '-=800px' });
37     });
38   });
39 }
40
41 $('.bomber').animate({ 'left': '-=50px' });
42
43 </script>
44 <div id="div1">
45   
48   </div>
49 <div id="div2">
50   
52   </div>
53 </body>
54 </html>
```

VSCode 내용



크롬 구현 화면