

```
1 <!DOCTYPE html>
2 <html lang="ko">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>if</title>
7   <script>
8     var uid = prompt('ID를 입력하세요', '모카');
9
10    if ( uid == '모카' ) {
11      document.write(uid + '님 안녕하세요!');
12    }
13
14  </script>
15 </head>
16 <body>
17
18 </body>
19 </html>
```

```
1 <!DOCTYPE html>
2 <html lang="ko">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>if</title>
7   <script>
8     var x = prompt('숫자를 입력하세요', '1');
9
10    if ( x % 2 == 0 ) {
11      document.write(x + '는 짝수입니다.');
```

```
1 <!DOCTYPE html>
2 <html lang="ko">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>if</title>
7   <script>
8     var uid = prompt('ID를 입력하세요');
9     var pw = prompt('암호를 입력하세요');
10
11     if ( uid == 'gold' && pw == '1122' ) {
12       document.write(uid + '님이 로그인하셨습니다.');
```

```
1 <!DOCTYPE html>
2 <html lang="ko">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>if</title>
7   <script>
8     var uid = prompt('ID를 입력하세요');
9     var pw = prompt('암호를 입력하세요');
10
11     if ( uid == 'gold' && pw == '1122' ) {
12       document.write(uid + '님이 로그인하셨습니다. ');
13     } else {
14       document.write('<h2>로그인 실패!!');
15     }
16   </script>
17 </head>
18 <body>
19
20 </body>
21 </html>
```

```
1 <!DOCTYPE html>
2 <html lang="ko">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>if~else</title>
7   <script>
8     var grade = prompt('점수를 입력하세요', 0);
9
10    if ( grade >= 70 ) {
11      document.write('<h2>합격입니다. ');
12    } else {
13      document.write('<h2>불합격입니다. ');
14    }
15
16  </script>
17 </head>
18 <body>
19
20 </body>
21 </html>
```

```
1 <!DOCTYPE html>
2 <html lang="ko">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>if-else-if</title>
7   <script>
8     var grade = prompt('점수를 입력하세요',0);
9
10    document.write('입력한' + grade + '점은(는) ');
11
12    if ( grade >= 90 ) {
13      document.write('A');
14    } else if ( grade >= 80 ) {
15      document.write('B');
16    } else if ( grade >= 70 ) {
17      document.write('C');
18    } else if ( grade >= 60 ) {
19      document.write('D');
20    } else {
21      document.write('F');
22    }
23
24    document.write(' 입니다. ');
25  </script>
26 </head>
27 <body>
28
29 </body>
30 </html>
```

```
1 <!DOCTYPE html>
2 <html lang="ko">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>if-else-if</title>
7   <script>
8     var grade = prompt('점수를 입력하세요',0);
9
10    // grade는 0보다 크거나 같고, 100보다 작거나 같다.
11    if ( grade >= 0 && grade <= 100 ) {
12      document.write('입력한' + grade + '점은(는) ');
13
14      if ( grade >= 90 ) {
15        document.write('A');
16      } else if ( grade >= 80 ) {
17        document.write('B');
18      } else if ( grade >= 70 ) {
19        document.write('C');
20      } else if ( grade >= 60 ) {
21        document.write('D');
22      } else {
23        document.write('F');
24      }
25
26      document.write(' 입니다. ');
27    } else {
28      document.write('<p>잘못입력했습니다. ');
29    }
30  </script>
31 </head>
32 <body>
33
34 </body>
35 </html>
```

```
1 <!DOCTYPE html>
2 <html lang="ko">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>switch</title>
7   <script>
8     var ff = prompt('좋아하는 과일은?', '사과, 딸기, 바나나, 수박 중 하나만 입력');
9
10    switch ( ff ) {
11      case '사과':
12        document.write('사과는 ...');
13        break;
14      case '딸기':
15        document.write('딸기는 논산');
16        break;
17      case '바나나':
18        document.write('바나나는 필리핀');
19        break;
20      case '수박':
21        document.write('수박은 고창');
22        break;
23      default:
24        document.write('정확하게 입력하세요!');
25    }
26  </script>
27 </head>
28 <body>
29
30 </body>
31 </html>
```



```
1 <!DOCTYPE html>
2 <html lang="ko">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>while</title>
7   <script>
8     var i = 0;
9
10    while ( i < 4 ) {
11      document.write('<h3>i = ' + i);
12      i++;
13    }
14    /*
15     시작값(초기값)
16     while ( 조건비교식 ) {
17       조건이 참일 때 실행할 문장;
18       증감식;
19     }
20    */
21  </script>
22 </head>
23 <body>
24
25 </body>
26 </html>
```

```
1 <!DOCTYPE html>
2 <html lang="ko">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>while</title>
7   <script>
8     var i = 1;
9     while ( i <= 100 ) {
10      document.write('<h4>i = ' + i);
11      i += 2;
12    }
13  </script>
14 </head>
15 <body>
16
17 </body>
18 </html>
```

```
1 <!DOCTYPE html>
2 <html lang="ko">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>while</title>
7   <script>
8     /* 1부터 100까지 누적 합계 */
9     var i = 1; //초기값
10    var s = 0; //누적합계를 저장할 변수
11    while ( i <= 100 ) {
12      document.write('<h4>i = ' + i);
13      s += i;
14      document.write(', 합계 : ' + s);
15      i++;
16    }
17
18    document.write('<h3>1부터 100까지의 합 : ' + s);
19  </script>
20 </head>
21 <body>
22
23 </body>
24 </html>
```

```
1 <!DOCTYPE html>
2 <html lang="ko">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>while</title>
7   <script>
8     /* 1부터 10까지 출력 - 서식(1+2+3+...+10=55) */
9     var i = parseInt(prompt('시작값을 입력하세요')); //초기값
10    var s = 0; //누적합계
11    var end = parseInt(prompt('종료값을 입력하세요')); //최종값
12
13    while ( i <= end ) {
14      document.write( i );
15
16      if ( i < end ) {
17        document.write(' + ');
18      }
19
20      s = s + i;
21      i++;
22    }
23    document.write(' = ' + s );
24  </script>
25 </head>
26 <body>
27
28 </body>
29 </html>
```

```
1 <!DOCTYPE html>
2 <html lang="ko">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>while</title>
7   <script>
8     var hp = prompt('체력을 입력하세요', 100);
9     var dam = prompt('1회 피해량을 입력하세요', 10);
10    var hit = 0;
11
12    while ( hp > 0 ) {
13      document.write('<p>남은 체력 : ' + hp);
14      hp = hp - dam;
15      hit++;
16      document.write('<p>방어 횟수 : ' + hit);
17    }
18    document.write('<h3>');
19    document.write(hit + '번 공격 받은 후 게임오버!');
20  </script>
21 </head>
22 <body>
23
24 </body>
25 </html>
```

```
1 <!DOCTYPE html>
2 <html lang="ko">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>while</title>
7   <script>
8     var target = 2; //타겟의 위치
9     var guess;      //추측 좌표
10    var guessCount = 0; //시도 횟수
11    var hitCount = 0; //명중 횟수
12    var destroy = false; //파괴 여부
13
14    while ( destroy == false ) {
15      guess = prompt('좌표를 입력하세요(1-10)', 1);
16
17      if ( guess < 1 || guess > 10 ) {
18        alert('올바른 좌표가 아닙니다. ');
19      } else {
20        guessCount++;
21
22        if ( guess == target ) {
23          alert('명중!!');
24          hitCount++;
25
26          if ( hitCount == 1 ) {
27            destroy = true;
28            alert('파괴 성공!');
29          }
30        } else {
31          alert('빗나갔습니다. ');
32        }
33      }
34    }
35  }
36
37  var ratio = '당신은 ' + guessCount + '번 발사했습니다.';
38  ratio += '<h3>명중률은 [';
39  ratio += ( 1 / guessCount ) * 100;
40  ratio += ']% 입니다.';
41
42  document.write( ratio );
43 </script>
44 </head>
45 <body>
46
47 </body>
48 </html>
```

```
1 <!DOCTYPE html>
2 <html lang="ko">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>while</title>
7   <script>
8     // var target = 2; //타겟의 위치
9     var target = Math.floor( Math.random() * 10 ) + 1;
10
11     var guess;      //추측 좌표
12     var guessCount = 0; //시도 횟수
13     var hitCount = 0; //명중 횟수
14     var destroy = false; //파괴 여부
15
16     while ( destroy == false ) {
17       guess = prompt('좌표를 입력하세요(1-10)', 1);
18
19       if ( guess < 1 || guess > 10 ) {
20         alert('올바른 좌표가 아닙니다. ');
21       } else {
22         guessCount++;
23
24         if ( guess == target ) {
25           alert('명중!!');
26           hitCount++;
27
28           if ( hitCount == 1 ) {
29             destroy = true;
30             alert('파괴 성공!');
31           }
32         } else {
33           alert('빗나갔습니다. ');
34         }
35       }
36     }
37   }
38
39   var ratio = '당신은 ' + guessCount + '번 발사했습니다.';
40   ratio += '<h3>명중률은 [';
41   ratio += ( 1 / guessCount ) * 100;
42   ratio += ']% 입니다.';
43
44   document.write( ratio );
45 </script>
46 </head>
47 <body>
48
49 </body>
50 </html>
```

```
1 <!DOCTYPE html>
2 <html lang="ko">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>do~while</title>
7   <script>
8     var i = 1;
9
10    do {
11      document.write('<p>i = ' + i);
12      i++;
13    } while ( i < 0 );
14  </script>
15 </head>
16 <body>
17
18 </body>
19 </html>
```



```
1 <!DOCTYPE html>
2 <html lang="ko">
3
4 <head>
5     <meta charset="UTF-8">
6     <title> do while문 </title>
7     <script>
8         var i = 1; //변수 i에 10 저장
9
10        do { //출력문 실행
11
12            document.write( "■ i = " + i + "<br>" );
13            i++;
14
15        } while ( i < 10 ) //변수 i에 값이 10 이상이면 종료
16    </script>
17 </head>
18
19 <body>
20
21 </body>
22
23 </html>
```

```
1 <!DOCTYPE html>
2 <html lang="ko">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>for</title>
7   <script>
8     for( var i = 0; i < 5; i++ ) {
9       document.write('<p>i = ' + i);
10    }
11    /*
12     for ( 시작값; 조건식(종료값); 증감값 ) {
13       조건이 참일 때 실행할 문장;
14     }
15    */
16  </script>
17 </head>
18 <body>
19
20 </body>
21 </html>
```

```
1 <!DOCTYPE html>
2 <html lang="ko">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>for</title>
7   <script>
8     var dan = prompt('계산할 단 수를 입력하세요', 2);
9
10    for ( var i = 1; i < 10; i++ ) {
11      document.write('<p>' + dan + ' x ' + i);
12      document.write(' = ');
13      document.write( dan * i );
14    }
15  </script>
16 </head>
17 <body>
18
19 </body>
20 </html>
```

```
1 <!DOCTYPE html>
2 <html lang="ko">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>for</title>
7   <script>
8     // 1행 5열 테이블 생성
9     var tbl = '<table>';
10    tbl += '<tr>';
11
12    // td 반복
13    for ( var i = 1; i <= 5; i++ ) {
14      tbl += '<td>' + i + '</td>';
15    }
16
17    tbl += '</tr>';
18    tbl += '</table>';
19
20    document.write( tbl );
21  </script>
22  <style>
23    table, tr, td {
24      border: 1px solid crimson;
25      border-collapse: collapse;
26    }
27    td { padding: 10px; }
28  </style>
29 </head>
30 <body>
31
32 </body>
33 </html>
```

```
1 <!DOCTYPE html>
2 <html lang="ko">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>for</title>
7   <script>
8     // 1행 ?열 테이블 생성
9     var col = prompt('몇 개의 열을 만들까요?', 1);
10
11     var tbl = '<table>';
12     tbl += '<tr>';
13
14     // td 반복
15     for ( var i = 1; i <= col; i++ ) {
16       tbl += '<td>' + i + '</td>';
17     }
18
19     tbl += '</tr>';
20     tbl += '</table>';
21
22     document.write( tbl );
23   </script>
24   <style>
25     table, tr, td {
26       border: 1px solid crimson;
27       border-collapse: collapse;
28     }
29     td { padding: 10px; }
30   </style>
31 </head>
32 <body>
33
34 </body>
35 </html>
```

```
1 <!DOCTYPE html>
2 <html lang="ko">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <meta http-equiv="X-UA-Compatible" content="ie=edge">
7   <title>for</title>
8   <script>
9     var i = 0;
10    var j = 0;
11
12    // 행 반복
13    for ( i = 0; i < 10; i++ ) {
14      var prt = '';
15
16      for ( j = 0; j <= i; j++ ) {
17        prt = prt + '*';
18      }
19
20      document.write(prt + '<br>');
21    }
22  </script>
23 </head>
24 <body>
25
26 </body>
27 </html>
```

```
1 <!DOCTYPE html>
2 <html lang="ko">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>for</title>
7   <script>
8     var dan = 0; //단 수
9     var n = 0;  //곱할 수
10
11    // 단
12    for ( dan = 2; dan < 10; dan++ ) {
13
14      // 곱할 수
15      for ( n = 1; n <= 9; n++) {
16        document.write('<p>');
17        document.write(dan + 'x' + n + ' = ');
18        document.write(dan * n);
19      }
20    }
21  </script>
22 </head>
23 <body>
24
25 </body>
26 </html>
```

```
1 <!DOCTYPE html>
2 <html lang="ko">
3
4 <head>
5     <meta charset="UTF-8">
6     <title> 중첩for문 </title>
7     <script>
8         //2에서 9단 만큼 반복
9         for ( var i = 2; i <= 9; i++ ) {
10
11             //2단부터 9단까지 단수 출력
12             document.write( "=====<br>" );
13             document.write( "<h1> " + i + " 단 </h1>" );
14             document.write( "=====<br>" );
15
16             //1~9까지 곱할 수
17             for ( var j = 1; j <= 9; j++ ) {
18                 //구구단 출력
19                 document.write( i + " x " + j + " = " );
20                 document.write( i * j, "<br>" );
21             }
22
23         }
24     </script>
25 </head>
26
27 <body>
28
29 </body>
30
31 </html>
```



```
1 <!DOCTYPE html>
2 <html lang="ko">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>for</title>
7   <style>
8     table, tr, td {
9       border: 2px solid #09f;
10      border-left: none; border-right: none;
11      border-collapse: collapse;
12    }
13    td { padding: 10px; }
14  </style>
15  <script>
16    var dan = 0; // 단 수
17    var n = 0;   // 곱할 수
18    var tbl = '<table>';
19
20    // 단(행)
21    for ( dan = 2; dan < 10; dan++ ) {
22      tbl += '<tr>'; // 행 시작
23
24      // 곱할 수(열)
25      for ( n = 1; n <= 9; n++ ) {
26        tbl += '<td>'; // 열 시작
27        tbl += dan + ' x ' + n + ' = ';
28        tbl += dan * n;
29        tbl += '</td>'; // 열 종료
30      }
31
32      tbl += '</tr>' //행 종료
33    }
34
35    tbl += '</table>'; // 테이블 종료
36    document.write( tbl ); // 테이블 출력
37  </script>
38 </head>
39 <body>
40
41 </body>
42 </html>
```

```

1  <!DOCTYPE html>
2  <html lang="ko">
3
4  <head>
5      <meta charset="UTF-8">
6      <title> 날짜 구하기 </title>
7      <script>
8          //현재 년도와 월 입력
9          var year = prompt( "현재 몇 년인가요?", "0000" );
10         var mon = prompt( "현재 몇 월인가요?", "0" );
11         var last_day;
12
13
14         /*입력된 월이 몇일까지 있는지 계산*/
15         switch ( mon ) {
16             case "1":
17                 last_day = 31;
18                 break;
19             case "2":
20                 last_day = 28;
21
22                 /*현재 년도가 4년 주기이고
23                 100년 주기는 아닌 경우
24                 또는 400년 주기로 윤년이므로
25                 2월은 29일까지 존재*/
26                 if ( year % 4 == 0 && year % 100 != 0 || year % 400 == 0 ) {
27                     last_day = 29;
28                 }
29                 break;
30             case "3":
31                 last_day = 31;
32                 break;
33             case "4":
34                 last_day = 30;
35                 break;
36             case "5":
37                 last_day = 31;
38                 break;
39             case "6":
40                 last_day = 30;
41                 break;
42             case "7":
43                 last_day = 31;
44                 break;
45             case "8":
46                 last_day = 31;
47                 break;
48             case "9":
49                 last_day = 30;
50                 break;
51             case "10":
52                 last_day = 31;
53                 break;
54             case "11":
55                 last_day = 30;
56                 break;
57             case "12":
58                 last_day = 31;
59                 break;
60         }
61
62         document.write( year, "년 ", mon, "월<hr>" );
63
64         /*현재 1일부터 마지막일까지 문서에 출력*/
65         for ( var i = 1; i <= last_day; i++ ) {

```

```
66         document.write( i + " | " );
67     }
68 </script>
69 </head>
70
71 <body>
72
73 </body>
74
75 </html>
```

```
1 <!DOCTYPE html>
2 <html lang="ko">
3
4 <head>
5     <meta charset="UTF-8">
6     <title> break문 </title>
7     <script>
8         for ( var i = 1; i <= 10; i++ ) {
9
10             //변수 i의 값이 6일 경우 break 실행
11             if ( i == 6 ) {
12                 document.write( "=====<br>" );
13                 document.write( "※ i의 값이 " + i + "이(가) 되어 종료합니다." );
14                 break;
15             }
16
17             document.write( "■ i = ", i, "<br>" );
18
19         }
20     </script>
21 </head>
22
23 <body>
24
25 </body>
26
27 </html>
```

```
1 <!DOCTYPE html>
2 <html lang="ko">
3
4 <head>
5     <meta charset="UTF-8">
6     <title> continue문 </title>
7     <script>
8         //변수 i의 값이 10이 될 때까지 반복
9         for ( var i = 1; i <= 10; i++ ) {
10
11             //변수 i의 값이 2의 배수일 경우에만 실행
12             if ( i % 2 == 0 ) {
13                 continue;
14             }
15
16             //변수 i의 값이 2의 배수가 아니면 출력
17             document.write( "■ i = ", i, "<br>" );
18         }
19     </script>
20 </head>
21
22 <body>
23
24 </body>
25
26 </html>
```

```
1 <!DOCTYPE html>
2 <html lang="ko">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>for-in</title>
7   <script>
8     var array = [1, 2, 3, 4, 5];
9
10    //for ( var i = 0; i < array.length; i++ )
11    for ( i in array ) {
12      document.write('<p>array : ' + array[i]);
13    }
14  </script>
15 </head>
16 <body>
17
18 </body>
19 </html>
```