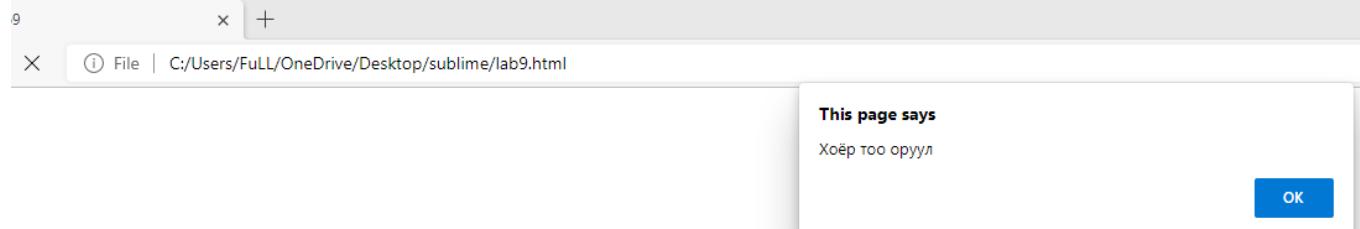


1. a) function -г скриптэд ашигласнаар скриптийн уншигдах чадварыг сайжруулна.
- b) Хэрэглэгчээс мэдээлэл авах боломжтой цонхыг windows объектын prompt дүрмээр гаргана.
- c) parseInt функцаар стрингийг бүхэл тоо болгон хөрвүүлнэ.
- d) Хэрэглэгчээс мэдээлэл харуулах боломжтой цонхыг windows объектын alert дүрмээр гаргана.

2. a)

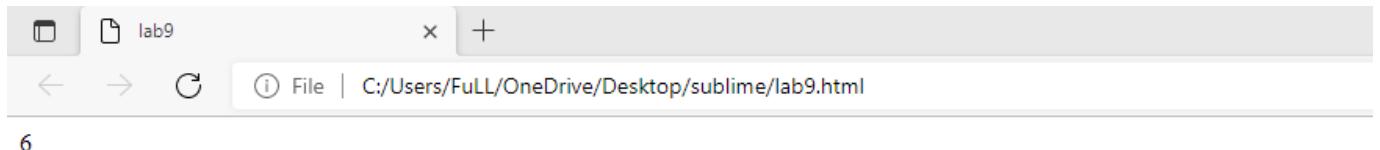


A screenshot of the Sublime Text editor. The file being edited is lab9.html, located at C:/Users/FuLL/Desktop/sublime/lab9.html. The code is as follows:

```
<!DOCTYPE html>
<html>
<head>
<title>lab9</title>
<script type="text/javascript">
    window.alert("Хоёр тоо оруул");
</script>
</head>
<body>
</body>
</html>
```

The script block is highlighted. At the bottom of the editor, it says "3 lines, 76 characters selected" and "Tab Size: 4".

2.b)



C:\Users\FuLL\OneDrive\Desktop\sublime\lab9.html - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

lab9.html

```
<!DOCTYPE html>
<html>
<head>
    <title>lab9</title>
    <script type="text/javascript">
        var b=window.prompt("b");
        var c=window.prompt("c");
        var a=b*c;
        document.writeln(a);
    </script>
</head>
<body>
</body>
</html>
```

2c)

File Edit Selection Find View Goto Tools Project Preferences Help

lab9.html

```
<!DOCTYPE html>
<html>
<head>
    <title>lab9</title>
    <meta charset="utf-8">
    <script type="text/javascript">

        var realsalary=window.prompt("Сарын үндсэн цалин : ");

        var ndsh=realsalary*0.125;
        var hhoat=(realsalary-ndsh)*0.1;
        var salary=realsalary-ndsh-hhoat;
        document.writeln("<h3>Нийгмийн даатгалын шимтгэл: "+ndsh+"</h3><h3>ХХОА татвар: "+hhoat+"</h3><h3> Цалин: "+salary);

    </script>
</head>
<body>
</body>
</html>
```

Нийгмийн даатгалын шимтгэл: 13888.875
ХХОА татвар: 9722.2125
Цалин: 87499.9125

3. а) Бүх жаваскрипт операторууд зүүнээс баруун тийш биелэгдэнэ.

Худал. Хаалт болон операторуудын түрүүлж бодгох дарааллаас хамаараад янз янз байдлаар биелэгдэж болно.

б) Дараах нь бүгд зөв хувьсагчийн нэрнүүд: `_under_bar_`, `m928134`, `etg`, `j7`, `her_sales$`, `his_$account_total`, `a`, `b$`, `c`, `z`, `z2`. **Үнэн**

с) Дараах нь бүгд буруу хувьсагчийн нэрнүүд: `3g`, `87`, `67h2`, `h22`, `2h`.

Худал. `h22` нь зөв хувьсачийн нэр.

д) () хаалтгүй зөв бичигдсэн жаваскрипт илэрхийлэл зүүнээс баруун тийш биелэгдэнэ.

Худал. Жишээ нь `a+b*c` байлаа гэж бодоход * үйлдэл түрүүнд биелэгдэж + үйлдэл сүүлд биелэгдэнэ. Операторуудад тодорхой дараалал байдаг.

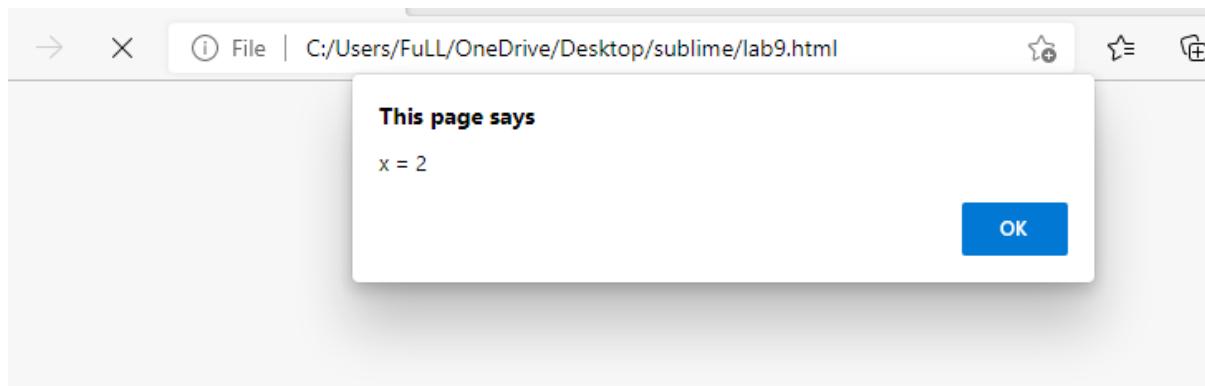
4. а) Үржих оператортай ижил биелэгдэх дараалалтай операторууд нь: `/`, `**`

б) Хэрвээ () хаалт дотор () хаалт бичвэл аль нь түрүүлж биелэгдэх вэ? **() хаалтны дотор байгаа хаалт нь түрүүлж биелэгдэнэ.**

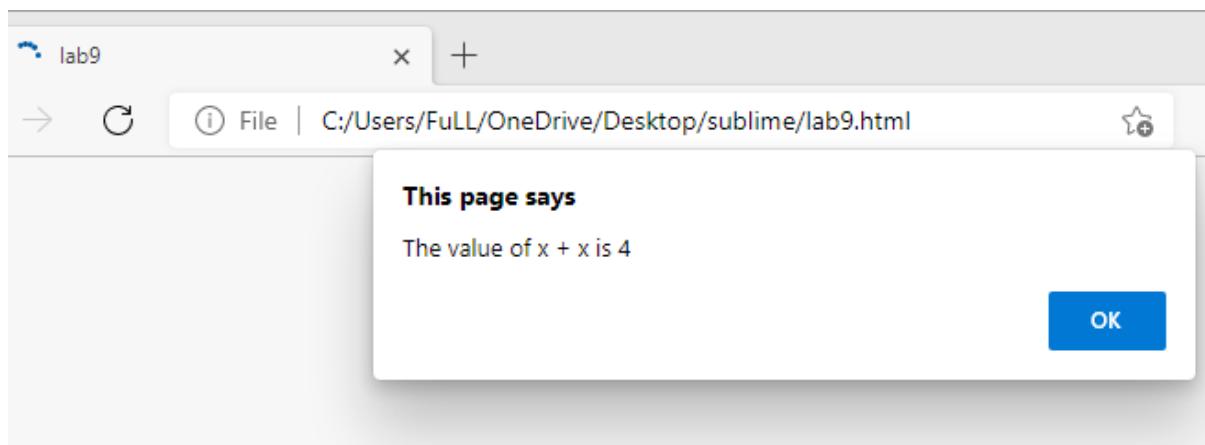
с) Скриптийн туршид утга нь өөрчлөгдөх боломжтой санах ойн байршилийг массив гэнэ.

5.

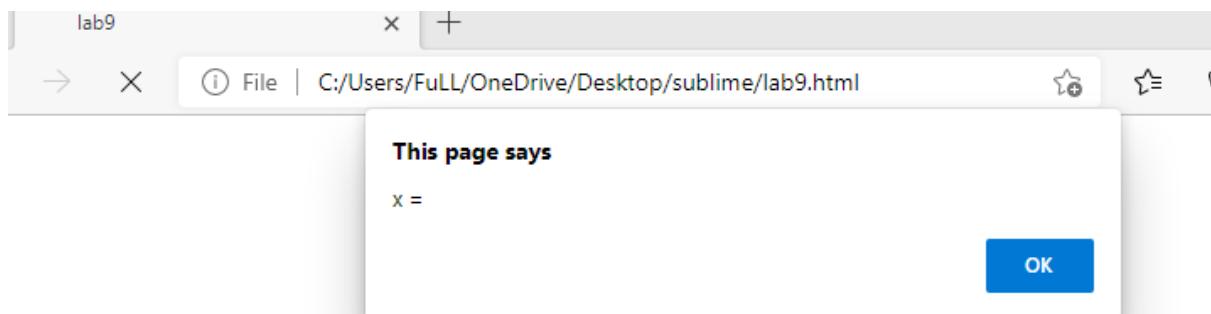
а) `window.alert("x = " + x);`



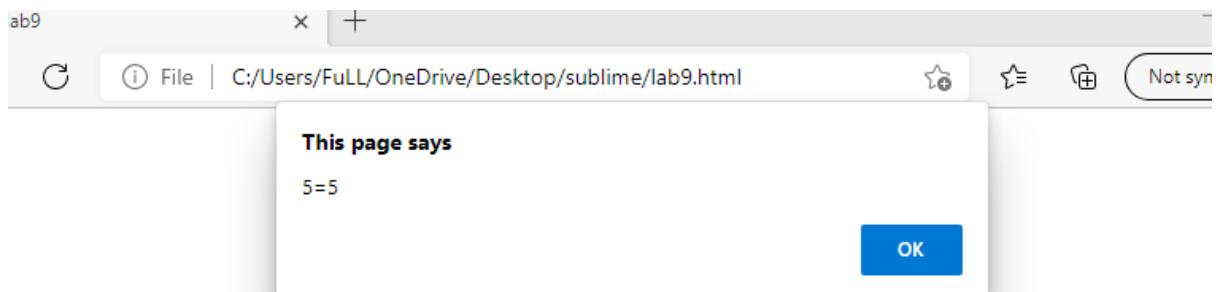
б) `window.alert("The value of x + x is " + (x + x));`



c) `window.alert("x = ");`



d) `window.alert((x + y) + "=" + (y + x));`



6. Дараах илэрхийлүүдийн алинд нь хувьсагчийн утгыг өөрчилж байна вэ?

a) `p = i + j + k + 7;`

b) `window.alert("variables whose values are destroyed");`

c) `window.alert("a = 5");`

d) `stringVal = window.prompt("Enter string:");` энэ үед хувьсагчид утга өгч байгаа учир хувьсагчийн утга өөрчлөгднө.

7. Дараахаас аль нь $y = ax^3 + 7$ илэрхийллийг жаваскриптэд зөвөөр бичсэн бэ?

a) `y = a * x * x * x + 7;`

b) `y = a * x * x * (x + 7);`

c) `y = (a * x) * x * (x + 7);`

d) `y = (a * x) * x * x + 7;`

e) $y = a * (x * x * x) + 7;$

f) $y = a * x * (x * x + 7);$

8. Дараах жаваскрипт илэрхийлүүдийн биелэгдэх дарааллыг тодорхойлж хариуг ол

a) $x = 7 + 3 * 6 / 2 - 1; \quad x=15$ үржих үйлдлээ түрүүнд хийгээд $+, -$ үйлдлээ хийнэ

b) $x = 2 \% 2 + 2 * 2 - 2 / 2; \quad x=3 \quad *, /$ үйлдлээ хийгээд $\%$ үйлдлээ хийгээд $+, -$ үйлдлээ хийнэ

c) $x = (3 * 9 * (3 + (9 * 3 / (3)))) ; \quad x=324$ хамгийн дотор талын хаалтнаас эхлэн хийнэ

6.15 a.

The screenshot shows two windows of Sublime Text. The left window is titled 'lab9.html' and contains the following HTML and JavaScript code:

```
<!DOCTYPE html>
<html>
<head>
    <title>lab9</title>
    <script type="text/javascript">
        document.write("1 2 3 4");
    </script>
</head>
<body>
</body>
</html>
```

The right window is titled 'lab9' and shows the output of the script: '1 2 3 4'.

6.15 b.

The screenshot shows two windows of Sublime Text. The left window is titled 'lab9.html' and contains the following HTML and JavaScript code:

```
<!DOCTYPE html>
<html>
<head>
    <title>lab9</title>
    <script type="text/javascript">
        document.writeln("1 2 3 4");
    </script>
</head>
<body>
</body>
</html>
```

The right window is titled 'lab9' and shows the output of the script: '1 2 3 4'.

9.

The screenshot shows a code editor with a file named 'lab9.html' and a browser window displaying the output of the script. The code prompts for two numbers, calculates their sum, product, difference, and quotient, and then prints them out. The browser window shows the results: Niilber: 3, Vrjver: 2, Yalgavar: -1, and Nogdvor: 0.5.

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <title>lab9</title>
5   <script type="text/javascript">
6
7     var x=parseFloat(window.prompt("1 deh too"));
8     var y=parseFloat(window.prompt("2 deh too"));
9     var a=x+y;
10    var b=x*y;
11    var c=x-y;
12    var d=x/y;
13
14    document.write("<h1>Niilber: "+a+"</h1> ");
15    document.write("<h1>Vrjver: "+b+"</h1> ");
16    document.write("<h1>Yalgavar: "+c+"</h1> ");
17    document.write("<h1>Nogdvor: "+d+"</h1> ");
18
19
20
21
22
23
24   </script>
25 </head>
26 <body>
27
28 </body>
29 </html>
```

Niilber: 3

Vrjver: 2

Yalgavar: -1

Nogdvor: 0.5

10.

The screenshot shows a code editor with a file named 'lab9.html' and a browser window displaying the output of the script. The code prompts for two numbers and then uses an if-else-if-else block to print different messages based on their comparison. The browser window shows the output: 2 too tencvv.

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <title>lab9</title>
5   <script type="text/javascript">
6
7     var x=parseFloat(window.prompt("1 deh too"));
8     var y=parseFloat(window.prompt("2 deh too"));
9     if(x>y){
10       document.write("<h1>"+x+" ni ih </h1> ");
11     }
12     else if (x<y){document.write("<h1>"+y+" ni ih </h1> ");}
13     else if(x=y){document.write("<h1> 2 too tencvv </h1> ");}
14
15
16
17
18
19
20
21   </script>
22 </head>
23 <body>
24
25 </body>
26 </html>
```

2 too tencvv

11.

The screenshot shows a Sublime Text editor with an open file named 'lab9.html'. The code in the file is as follows:

```
4 <title>lab9</title>
5 <script type="text/javascript">
6
7     var x=parseFloat(window.prompt("1 deh too"));
8     var y=parseFloat(window.prompt("2 deh too"));
9     var z=parseFloat(window.prompt("3 deh too"));
10
11    window.alert("NIILBER:"+x+y+z+" VRJVER:"+x*y*z);
12
13
14
15
16
17
18    </script>
19 </head>
20 <body>
21
22 </body>
23 </html>
```

Below the editor is a browser window titled 'lab9' showing the output of the script. The alert box displays the message "This page says" followed by "NIILBER:6 VRJVER:6". An "OK" button is visible at the bottom right of the alert box.

12.

The screenshot shows a Sublime Text editor with an open file named 'lab9.html'. The code in the file is as follows:

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4     <title>lab9</title>
5     <script type="text/javascript">
6
7         var r=parseFloat(window.prompt("Riadus"));
8         var d=2*r;
9         var s=Math.PI*r*r;
10        var l=d*Math.PI;
11
12        document.write("<h1> D = "+d+"</h1><h1> S = "+s+"</h1><h1> L = "+l+"</h1>");
13
14
15
16
17
18
19     </script>
20 </head>
21 <body>
22
23 </body>
24 </html>
```

Below the editor is a browser window titled 'lab9' showing the output of the script. The page displays three large bold numbers: "D = 6", "S = 28.274333882308138", and "L = 18.84955592153876".

13.

The screenshot shows a Windows desktop environment. In the top taskbar, there is a command prompt window titled 'cmd' with the path 'C:\Users\FuLL\OneDrive\Desktop\sublime\lab9.html'. Below it, there is a Sublime Text editor window titled 'lab9.html' (UNREGISTERED) with the file path 'C:\Users\FuLL\OneDrive\Desktop\sublime\lab9.html'. The Sublime Text window displays the following HTML code:

```
<!DOCTYPE html>
<html>
<head>
<title>lab9</title>
<meta charset="utf-8">
</head>
<body>
<p id="output1"></p>
<script type="text/javascript">
var a = new Array(5);
for( var i=0; i<5; i++){
    a[i]=parseFloat(window.prompt("a["+i+"] toog oruul"));
}
document.getElementById("output1").innerHTML =a;
var max=a[0];
for ( var i=0; i<5; i++)
{
    if (max>a[i]) {max=max;}
    else if (a[i]>max) { max=a[i];}
}
document.writeln("max is "+max);
</script>
</body>
</html>
```

14.

The screenshot shows a Sublime Text editor with a file named 'lab9.html' open. The code contains a script that prompts the user for a number and checks if it's even or odd. A browser window titled 'lab9' is shown, displaying an alert box with the message '3 ni sondgoi too.'.

```
<!DOCTYPE html>
<html>
<head>
    <title>lab9</title>
    <script type="text/javascript">
        var x=parseInt(window.prompt( "Toog oruul"));
        if (x%2==0) {window.alert(x+" ni tegsh too.");}
        else {window.alert(x+" ni sondgoi too.");}
    </script>
</head>
<body>
</body>
</html>
```

15.

The screenshot shows a Sublime Text editor with a file named 'lab9.html' open. The code contains a script that prompts the user for two numbers, calculates their sum, and checks if it's even or odd. A browser window titled 'lab9' is shown, displaying an alert box with the message '2 ni 6 iin vrjigdehvvn'.

```
<!DOCTYPE html>
<html>
<head>
    <title>lab9</title>
    <script type="text/javascript">
        window.alert( "2 deh too ni ehnii toonii vrjigdehvvn mon vv?")
        var x=parseInt(window.prompt( "ehnii toog oruul"));
        var y=parseInt(window.prompt( " svvliin toog oruul"));

        if (x%y==0) {window.alert(y+" ni "+x+" iin vrjigdehvvn");}
        else {window.alert(y+" ni "+x+" iin vrjigdehvvn bish.");}
    </script>
</head>
<body>
</body>
</html>
```

16.

-1,0,1

Negative number :1

Positive number : 1

0 is :1

```
7
8
9
10
11
12 </head>
13 <body>
14     <h2 id="output1"></h2>
15     <script type="text/javascript">
16
17
18
19 var a = new Array(3);
20 for( var i=0; i<3; i++){
21     a[i]=parseFloat(window.prompt("a["+i+"] toog oruul"));
22 }
23
24 document.getElementById("output1").innerHTML =a;
25
26 var neg=0;
27 var pos=0;
28 var o=0;
29
30 for ( var i=0; i<5; i++)
31 {
32     if (o>a[i]) { neg++;
33     }
34     else if (a[i]>o) { pos++; }
35     else if (a[i]==o){ o++; }
36 }
37 document.writeln("<h3>Negative number : "+neg+" </h3><h3>Positive number : "+pos+"</h3><h3>0 is : "+o+"</h3>");
38
39
40 </script>
41
42
43 </body>
44 </html>
```

17.

number	square	cube
1	1	1
2	4	8
3	9	27
4	16	64
5	25	125

```
1 <!DOCTYPE html>
2 <html>
3     <head>
4         <style type="text/css">
5             #output1 {
6                 border-width: 2px;
7                 border-style: solid;
8                 width: 100px;
9             }
10        </style>
11        <title>lab9</title>
12        <meta charset="utf-8">
13    </head>
14    <body>
15        <div id="output1"></div>
16        <script type="text/javascript">
17            function start(){
18                var a = new Array(5);
19                for( var i=0; i<5; i++){
20                    a[i]=i+1;
21                }
22                outputArray (a,document.getElementById("output1"));
23            }
24            function outputArray( theArray, output)
25            {
26                var content= '<table border=2>'+<tr><td>number</td><td>square</td><td>cube</td>';
27                for ( var i=0; i<5;i++){
28                    content+=<tr><td>"+(i+1)+"</td><td>"+(theArray[i]**2)+"</td><td>"+(theArray[i]**3)+"</tr>";
29                }
30                content+="</table>";
31                output.innerHTML=content;
32            }
33
34            window.addEventListener("load", start, false);
35
36
37
38        </script>
39
40    </body>
41 </html>
```

