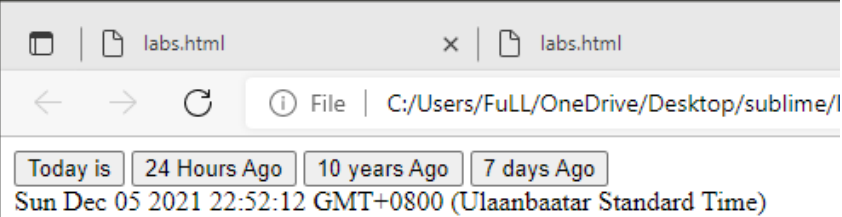


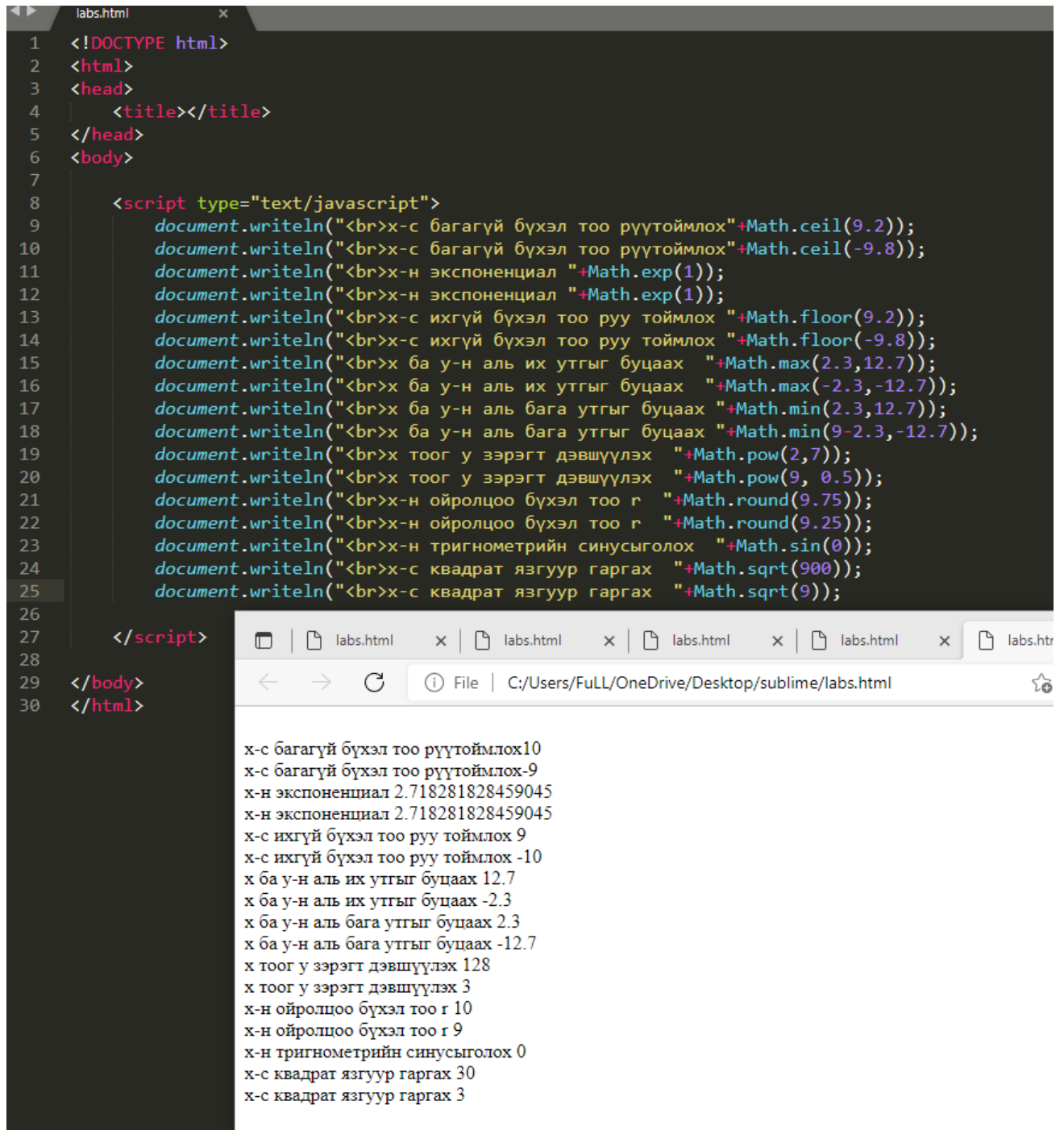
## Лаборатори 14

1. Дараах дөрвөн товчыг агуулсан вэб хуудсыг үүсгэ. Үүнд: өнөөдрийн огноог харуулах товч, 24 цагийн өмнө огноог харуулах товч, арван жилийн өмнөх огноог харуулах товч, өнөөдрөөс нэг долоо хоногийн өмнөх огноог харуулах товч. Товч бүрийн харгалзах огноог alert цонх ашиглан хэвлэ.

```
4     <title></title>
5 </head>
6 <body>
7
8     <button onclick="getToday()">Today is</button>
9     <button onclick="get24HoursAgo()">24 Hours Ago</button>
10    <button onclick="get10tyearsago()">10 years Ago</button>
11    <button onclick="get7daysago()">7 days Ago</button>
12    <div id="visual"></div>
13
14
15
16
17    <script type="text/javascript">
18    function getToday(){
19        var today= new Date();
20        document.getElementById("visual").innerHTML=today;
21    }
22    function get24HoursAgo(){
23        var today= new Date();
24        today.setHours(today.getHours()-24);
25        document.getElementById("visual").innerHTML=today;
26    }
27    function get10tyearsago(){
28        var today=new Date();
29        today.setFullYear(today.getFullYear()-10);
30        document.getElementById("visual").innerHTML=today;
31    }
32    function get7daysago(){
33        var today=new Date();
34        today.setDate(today.getDate()-7);
35        document.getElementById("visual").innerHTML=today;
36    }
37
38    </script>
39
40 </body>
41 </html>
```



2.



```
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <title></title>
5 </head>
6 <body>
7
8   <script type="text/javascript">
9     document.writeln("<br>х-с багагүй бүхэл тоо рүүтоймлох"+Math.ceil(9.2));
10    document.writeln("<br>х-с багагүй бүхэл тоо рүүтоймлох"+Math.ceil(-9.8));
11    document.writeln("<br>х-н экспоненциал "+Math.exp(1));
12    document.writeln("<br>х-н экспоненциал "+Math.exp(1));
13    document.writeln("<br>х-с ихгүй бүхэл тоо руу тоймлох "+Math.floor(9.2));
14    document.writeln("<br>х-с ихгүй бүхэл тоо руу тоймлох "+Math.floor(-9.8));
15    document.writeln("<br>х ба у-н аль их утгыг буцаах "+Math.max(2.3,12.7));
16    document.writeln("<br>х ба у-н аль их утгыг буцаах "+Math.max(-2.3,-12.7));
17    document.writeln("<br>х ба у-н аль бага утгыг буцаах "+Math.min(2.3,12.7));
18    document.writeln("<br>х ба у-н аль бага утгыг буцаах "+Math.min(9-2.3,-12.7));
19    document.writeln("<br>х тоог у зэрэгт дэвшүүлэх "+Math.pow(2,7));
20    document.writeln("<br>х тоог у зэрэгт дэвшүүлэх "+Math.pow(9, 0.5));
21    document.writeln("<br>х-н ойролцоо бүхэл тоо r "+Math.round(9.75));
22    document.writeln("<br>х-н ойролцоо бүхэл тоо r "+Math.round(9.25));
23    document.writeln("<br>х-н тригонометрийн синусыголох "+Math.sin(0));
24    document.writeln("<br>х-с квадрат язгуур гаргах "+Math.sqrt(900));
25    document.writeln("<br>х-с квадрат язгуур гаргах "+Math.sqrt(9));
26
27   </script>
28
29 </body>
30 </html>
```

х-с багагүй бүхэл тоо рүүтоймлох10  
х-с багагүй бүхэл тоо рүүтоймлох-9  
х-н экспоненциал 2.718281828459045  
х-н экспоненциал 2.718281828459045  
х-с ихгүй бүхэл тоо руу тоймлох 9  
х-с ихгүй бүхэл тоо руу тоймлох -10  
х ба у-н аль их утгыг буцаах 12.7  
х ба у-н аль их утгыг буцаах -2.3  
х ба у-н аль бага утгыг буцаах 2.3  
х ба у-н аль бага утгыг буцаах -12.7  
х тоог у зэрэгт дэвшүүлэх 128  
х тоог у зэрэгт дэвшүүлэх 3  
х-н ойролцоо бүхэл тоо r 10  
х-н ойролцоо бүхэл тоо r 9  
х-н тригонометрийн синусыголох 0  
х-с квадрат язгуур гаргах 30  
х-с квадрат язгуур гаргах 3

3.

```
<script type="text/javascript">
```

```
var x=parseFloat(prompt());
```

```
alert("negjeer : "+roundToInteger(x));  
alert("aravtaar : "+roundTotenths(x));  
alert("100 taar : "+roundToHundredths(x));  
alert("1000 taar : "+roundToThousandths(x));
```

```
function roundToInteger(x){  
  var y=Math.floor((x+5)/10)*10;  
  return y ;}
```

```
function roundTotenths(x){  
  var y=Math.floor((x+50)/100)*100;  
  return y ;}
```

```
function roundToHundredths(x){  
  var y=Math.floor((x+500)/1000)*1000;  
  return y ;}  
  
function roundToThousandths(x){  
  var y=Math.floor((x+5000)/10000)*10000;  
  return y ;}
```

```
</script>
```

4.

```
<script type="text/javascript">  
  var first=window.prompt("Ehnii textee oruul : ");  
  var second=window.prompt("Udaah textee oruul : ");  
  if (first.length>second.length){
```

```

document.writeln(first+" is long.");
}

else if (first.length<second.length){
document.writeln(second+" is long.");
}

else if (first.length==second.length){
document.writeln(second+" and "+first+" is equal.");
}

</script>

```

5.

```

1 <!DOCTYPE html>
2 <html>
3 <head>
4   <title></title>
5 </head>
6 <body>
7
8   <script type="text/javascript">
9     var phonenumber=window.prompt("Dugaaraa oruul : ");
10    if(phonenumber.length!=8){
11      alert("Dugaar buruu orson baina");
12    }
13    else {
14      document.writeln("(976)" + phonenumber.substring(0,4) + "-" + phonenumber.substring(4,8));
15    }
16  </script>
17
18 </body>
19 </html>

```

labs.html

File | C:/Users/FuLL/OneDrive/Desktop/sublime/labs.html

+(976)9981-2831

6. Олон үг бүхий текстийг оруулахад String-н split дүрэм ашиглан үгүүдийг салгаж буцаагаад урвуу дарааллаар харуулна уу.

```

<!DOCTYPE html>

<html>

<head>

  <title></title>

```

```

</head>
<body>
    <script type="text/javascript">
        var str=window.prompt("Text iig oruul ");
        var strArray=str.split(" ");
        str="";
        for (var i = strArray.length-1; i >=0 ; i--) {
            str=str+" "+strArray[i];
        }
        document.writeln(str);
    </script>
</body>
</html>

```

The screenshot shows a code editor with a dark theme. The file is named 'labs.html'. The code is as follows:

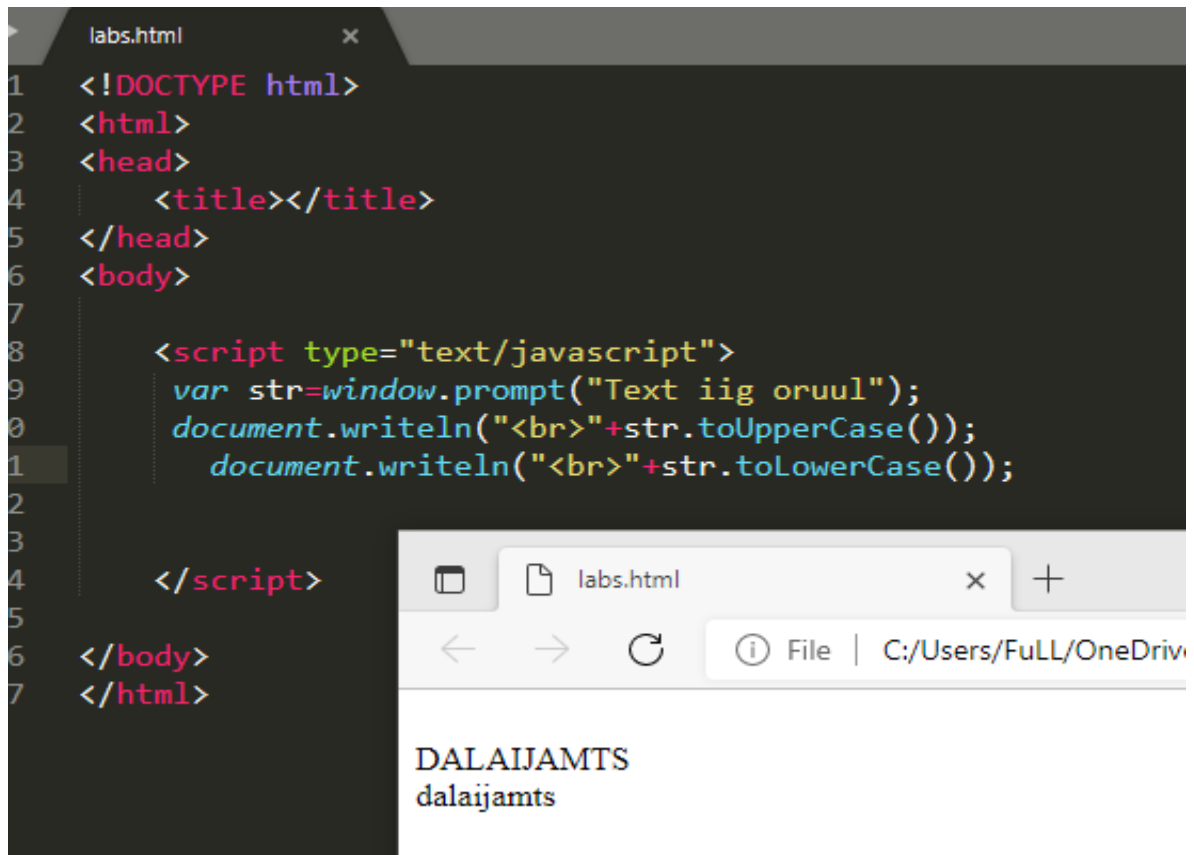
```

1  <!DOCTYPE html>
2  <html>
3  <head>
4  <title></title>
5  </head>
6  <body>
7  .....
8  <script type="text/javascript">
9  .....var str=window.prompt("Text iig oruul ");
10 .....var strArray=str.split(" ");
11 .....str="";
12 .....for (var i = strArray.length-1; i >=0 ; i--) {
13 .....
14 .....str=str+" "+strArray[i];
15 .....
16 .....}
17 .....document.writeln(str);
18 </script>
19
20 </body>
21 </html>

```

Below the code editor, a browser window is open. The address bar shows the file path: C:/Users/FuLL/OneDrive/Desktop/sublime/. The page content displays the output of the JavaScript code: 'juice icecream chocolate'.

7.



8.

```
<script type="text/javascript">
```

```
var str="Дуудсан мөр аргументаар авсан дэд мөр аргументаар авсан индексээс эхэлж урагш  
нь хайна. Хэрвээдэд мөр олдвол эхний байрлалын индексийг буцаана. Олдохгүй бол -1-г  
буцаана. index аргументыг өгөөгүй үед хайлт мөр төгсгөлөөс эхлэнэ.";
```

```
var search=window.prompt("Haih textee oruul");
```

```
var k=0;
```

```
var i=0;
```

```
while(i<str.length){
```

```
    if(-1!=str.indexOf(search,i)){k=k+1; }
```

```
    else{break;}
```

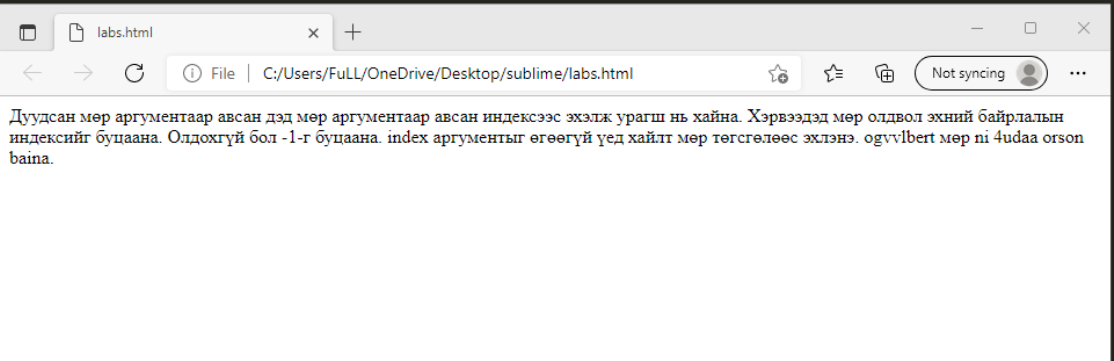
```
    i=str.indexOf(search,i)+search.length;
```

```
}
```

```
document.writeln(str+" ogvvlbert "+search+" ni "+k+"udaa orson байна.");
```

</script>

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <title></title>
5 </head>
6 <body>
7
8   <script type="text/javascript">
9
10
11
12   var str="Дуудсан мөр аргументаар авсан дэд мөр аргументаар авсан индексээс эхэлж урагш нь хайна. Хэрвээдэд мөр олдвол эхний ба
13   аргументыг өгөөгүй үед хайлт мөр төгсгөлөөс эхлэнэ.";
14   var search=window.prompt("Haih textee oruul");
15   var k=0;
16   var i=0;
17   while(i<str.length){
18     if(-1!=str.indexOf(search,i)){k=k+1; }
19     else{break;}
20     i=str.indexOf(search,i)+search.length;
21   }
22   document.writeln(str+" ogvvlberty "+search+" ni "+k+"udaa orson байна.");
23
24   </script>
25
26 </body>
27 </html>
```



9.

```
<script type="text/javascript">
```

```
var search=window.prompt("textee oruul");
```

```
search=search.toLowerCase();
```

```
search=search.split(" ");
```

```
var wh =new Array(34);
```

```
for (var i = 0; i < wh.length; i++) {
```

```
  wh[i]=new Array(2);
```

```
  wh[i][1]=0;
```

```
}
```

```
for (var i = 0; i < wh.length; i++) {  
    switch(i){  
        case 0:wh[i][0]='a'; break;  
        case 1:wh[i][0]='б'; break;  
        case 2:wh[i][0]='в' ; break;  
        case 3:wh[i][0]='г'; break;  
        case 4:wh[i][0]='д'; break;  
        case 5:wh[i][0]='е'; break;  
        case 6:wh[i][0]='ё'; break;  
        case 7:wh[i][0]='ж'; break;  
        case 8:wh[i][0]='з'; break;  
        case 9:wh[i][0]='и'; break;  
        case 10:wh[i][0]='й'; break;  
        case 11:wh[i][0]='к'; break;  
        case 12:wh[i][0]='л'; break;  
        case 13:wh[i][0]='м'; break;  
        case 14:wh[i][0]='н'; break;  
        case 15:wh[i][0]='о'; break;  
        case 16:wh[i][0]='ө'; break;  
        case 17:wh[i][0]='п'; break;  
        case 18:wh[i][0]='р'; break;  
        case 19:wh[i][0]='с'; break;  
        case 20:wh[i][0]='т'; break;  
        case 21:wh[i][0]='у'; break;  
        case 22:wh[i][0]='ү'; break;  
        case 23:wh[i][0]='ф'; break;  
        case 24:wh[i][0]='х'; break;  
        case 25:wh[i][0]='ц'; break;  
        case 26:wh[i][0]='ч'; break;  
        case 27:wh[i][0]='ш'; break;  
        case 28:wh[i][0]='щ'; break;
```



```

case 29:wh[i][0]='ъ'; break;
case 30:wh[i][0]='ы'; break;
case 31:wh[i][0]='ь'; break;
case 32:wh[i][0]='э'; break;
case 33:wh[i][0]='ю'; break;
case 34:wh[i][0]='я' ; break;
}}

for (var i = 0; i < search.length; i++){
switch(search[i][0])
{
case 'a' : wh[0][1]+=1; break;
case 'б': wh[1][1]+=1; break;
case 'в': wh[2][1]+=1; break;
case 'г': wh[3][1]+=1; break;
case 'д': wh[4][1]+=1; break;
case 'е': wh[5][1]+=1; break;
case 'ё': wh[6][1]+=1; break;
case 'ж': wh[7][1]+=1; break;
case 'з': wh[8][1]+=1; break;
case 'и': wh[9][1]+=1; break;
case 'й': wh[10][1]+=1; break;
case 'к': wh[11][1]+=1; break;
case 'л': wh[12][1]+=1; break;
case 'м': wh[13][1]+=1; break;
case 'н': wh[14][1]+=1; break;
case 'о': wh[15][1]+=1; break;
case 'ө': wh[16][1]+=1; break;
case 'п': wh[17][1]+=1; break;
case 'р': wh[18][1]+=1; break;
case 'с': wh[19][1]+=1; break;
case 'т': wh[20][1]+=1; break;

```

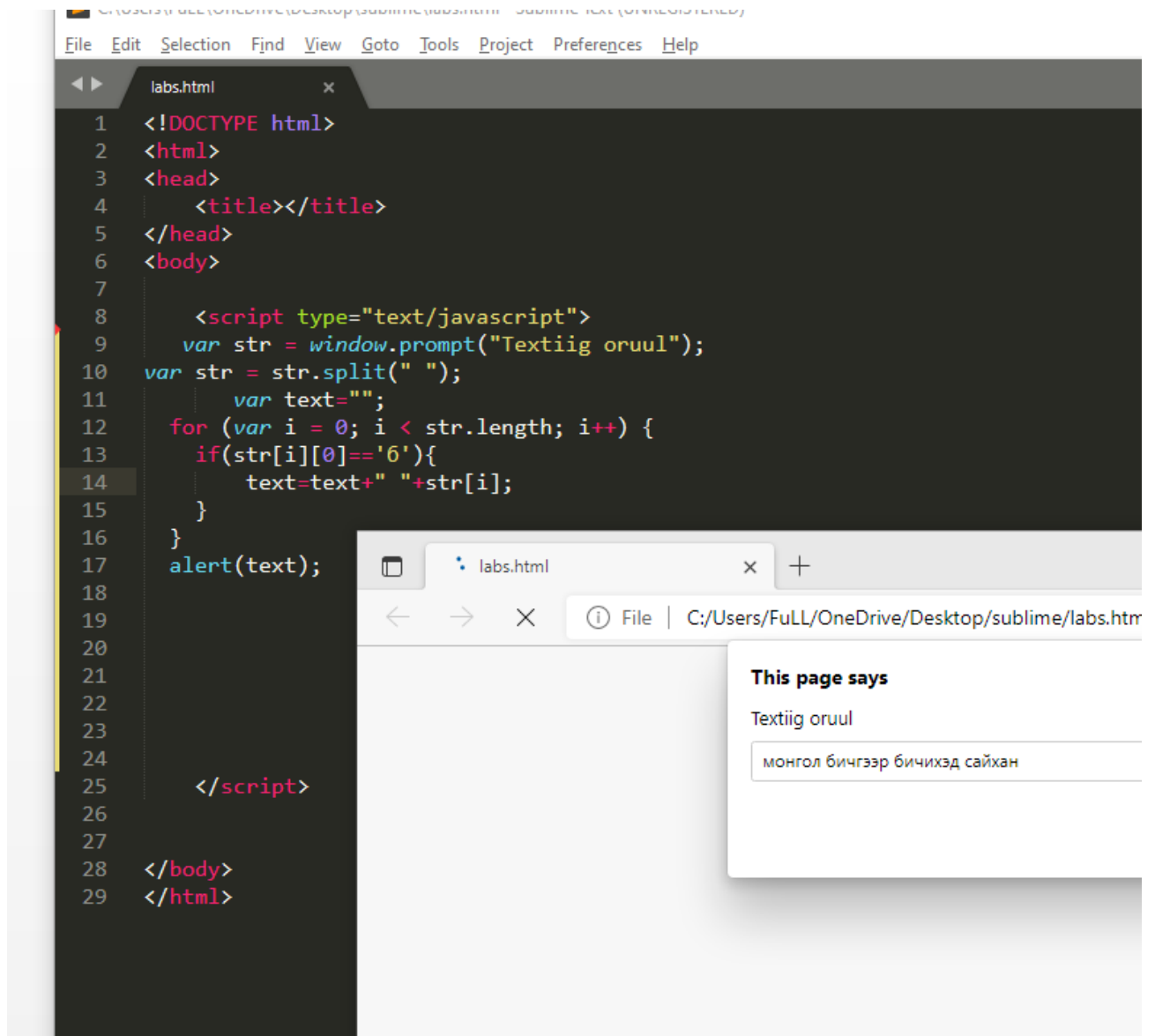
```

case 'y': wh[21][1]+=1; break;
case 'γ': wh[22][1]+=1; break;
case 'ϕ': wh[23][1]+=1; break;
case 'x': wh[24][1]+=1; break;
case 'ц': wh[25][1]+=1; break;
case 'ч': wh[26][1]+=1; break;
case 'ш': wh[27][1]+=1; break;
case 'щ': wh[28][1]+=1; break;
case 'ъ': wh[29][1]+=1; break;
case 'ы': wh[30][1]+=1; break;
case 'ь': wh[31][1]+=1; break;
case 'э': wh[32][1]+=1; break;
case 'ю': wh[33][1]+=1; break;
case 'я': wh[34][1]+=1; break;
}
}

for (var i = 0; i < wh.length; i++) {
    document.writeln("<br>" + wh[i][0] + " = " + wh[i][1]);
}

```

</script>



This page says

бичгээр бичихэд

11.

```
<script type="text/javascript">  
var str = window.prompt("Textiig oruul");  
var str = str.split(" ");
```

```

var text="";
for (var i = 0; i < str.length; i++) {
    var index=str[i].length;
    if(str[i][index-2]=='н' && str[i][index-1]!='б' && str[i][index-1]!='ъ' ){
        text=text+" "+str[i];
    }
}
alert(text);
</script>

```

12.

```

1  <!DOCTYPE html>
2  <html>
3  <head>
4      <title></title>
5  </head>
6  <body>
7
8      <script type="text/javascript">
9          var day=window.prompt("2021-12-12 baidlaar udriig oruul : ");
10         var date = new Date(day);
11         switch(date.getDay()){
12             case 0: alert("Sunday"); break;
13             case 1: alert("Monday"); break;
14             case 2: alert("Tuesday"); break;
15             case 3: alert("Wednesday"); break;
16             case 4: alert("Thursday"); break;
17             case 5: alert("Friday"); break;
18             case 6: alert("Saturday"); break;
19             case 7: alert("Sunday"); break;
20         }
21     }
22 </script>
23 </body>
24 </html>

```

The browser window shows the file 'labs.html' and the output 'Sunday'.

13.

```
<script type="text/javascript">

    var money=window.prompt("Money : ");
    money=money.toString();
    var str="";
    for (var i = 0; i < money.length; i++) {
    var negj=parseInt(money[money.length-i-1]);
        switch(i){
            case 0: str+=negjoron(negj); break;
            case 1: str=aravtoron(negj)+" "+str; break;
            case 2: str=negjoron(negj)+" zuun "+str; break;
            case 3: str=negjoron(negj)+" myanga "+str; break;
            case 4: str=aravtoron(negj)+" "+str; break;
            case 5: str=negjoron(negj)+" zuun myanga "+str; break;
            case 6: str=negjoron(negj)+" say "+str; break;
            case 7: str=aravtoron(negj)+" say "+str; break;
            case 3: str=negjoron(negj)+" zuun say "+str; break;
        }
    }
    alert(money+" = "+str);
    function negjoron(a) {
    switch(a){
        case 1: return "neg"; break;
        case 2: return "hojr"; break;
        case 3: return "gurav"; break;
        case 4: return "dorov"; break;
        case 5: return "tav"; break;
        case 6: return "zurgaa"; break;
        case 7: return "doloo"; break;
        case 8: return "naim"; break;
        case 9: return "yos"; break;
```

```
}  
}  
function aravtoron(a) {  
  switch(a){  
    case 1: return "arvan"; break;  
    case 2: return "horin"; break;  
    case 3: return "guchin"; break;  
    case 4: return "dochin"; break;  
    case 5: return "tavin"; break;  
    case 6: return "jara"; break;  
    case 7: return "dalan"; break;  
    case 8: return "nayan"; break;  
    case 9: return "yeren"; break;  
  }  
}  
</script>
```

C:/Users/FuLL/OneDrive/Desktop/sublime/labs.html



**This page says**

321 = gurav zuun horin neg

OK