

**LAPORAN PENGERJAAN PRAKTIKUM**  
**DESAIN WEB**  
Dosen Pengampu : Vearen Dika Sofirudin S.Pd., M.ed.



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**PROGRAM STUDI PENDIDIKAN TEKNIK INFORMATIKA DAN  
KOMPUTER**  
**FAKULTAS KEGURUAN DAN ILMU PENDIDIKAN**  
**UNIVERSITAS SEBELAS MARET SURAKARTA**  
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# LAPORAN PENGERJAAN PRAKTIKUM

## DESAIN WEB

Dosen Pengampu : Vearen Dika Sofirudin S.Pd., M.ed.

### LATIHAN

- Latihan1.html

Kode:

```
<!-- latian1.html -->
<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>Web Storage</title>
</head>
<body>
    <center>
        <h1>Selamat Datang, Member!</h1>
        <button onclick="gantiNama(event)">Masukkan Nama</button>
    </center>
<script type="text/javascript">
    const namaMember = document.querySelector('h1');

    // Mengecek apakah sudah ada nama tersimpan di localStorage
    const namaTersimpan = localStorage.getItem('nama');
    if (namaTersimpan) {
        namaMember.innerHTML = 'Halo ' + namaTersimpan + '!';
    }

    function gantiNama() {
        const nama = prompt('Masukkan nama Anda?');
        if (nama && nama.trim() !== "") {
            localStorage.setItem('nama', nama);
            namaMember.innerHTML = 'Halo ' + nama + '!';
        } else {
            alert('Nama tidak boleh kosong!');
        }
        event.preventDefault();
    }
</script>
</body>
</html>
```

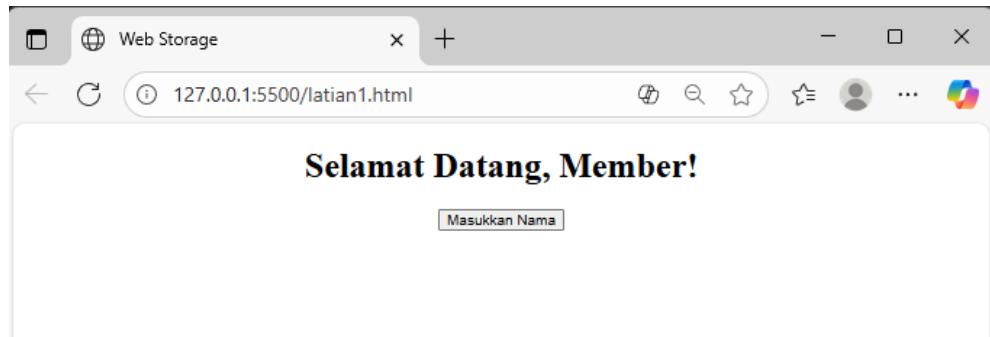
Jalankan lalu apa yang terjadi?

Ketika halaman dijalankan dan kita memasukkan nama lewat prompt, maka:

1. Nama akan disimpan ke localStorage dengan key 'nama'
2. Tampilan h1 berubah jadi "Halo [nama yang dimasukkan]!"
3. **Kalau halaman di-reload/refresh**, nama tersebut tetap muncul karena sudah tersimpan di localStorage

4. Data akan tetap ada meskipun browser ditutup, karena localStorage bersifat persistent

Tampilan:

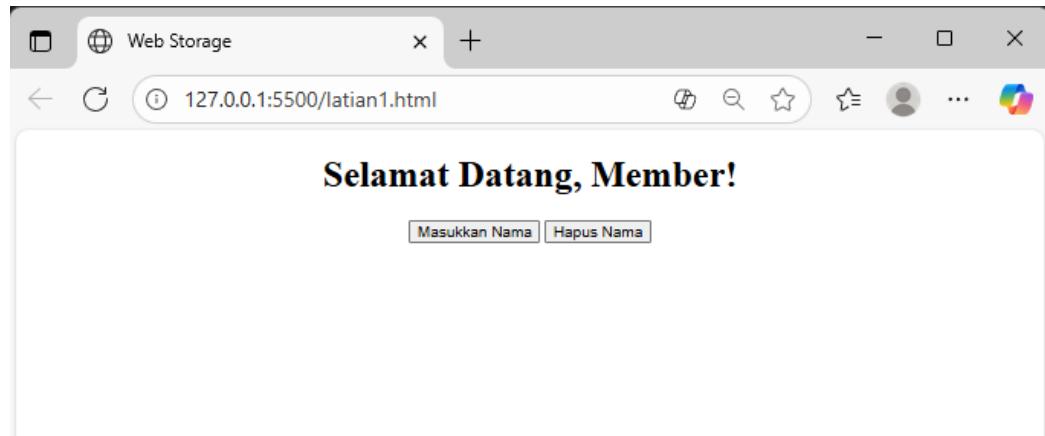


Tambahkan sebuah tombol yang dapat menghapus nama dari member!

Kode:

```
latian1.html x latian2.html
latian1.html > html
1  <!DOCTYPE html>
2  <html>
3  <head>
4      <meta charset="utf-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1">
6      <title>Web Storage</title>
7  </head>
8  <body>
9      <center>
10         <h1>Selamat Datang, Member!</h1>
11         <button onclick="gantiNama(event)">Masukkan Nama</button>
12         <button onclick="hapusNama()">Hapus Nama</button>
13     </center>
14
15     <script type="text/javascript">
16         const namaMember = document.querySelector('h1');
17
18         // Mengecek apakah sudah ada nama tersimpan di localStorage
19         const namaTersimpan = localStorage.getItem('nama');
20         if (namaTersimpan) {
21             namaMember.innerHTML = 'Halo ' + namaTersimpan + '!';
22         }
23
24         function gantiNama() {
25             const nama = prompt('Masukkan nama Anda?');
26             if (nama && nama.trim() !== "") {
27                 localStorage.setItem('nama', nama);
28                 namaMember.innerHTML = 'Halo ' + nama + '!';
29             } else {
30                 alert('Nama tidak boleh kosong!');
31             }
32             event.preventDefault();
33         }
34     </script>
35 </body>
36 </html>
```

Tampilan:

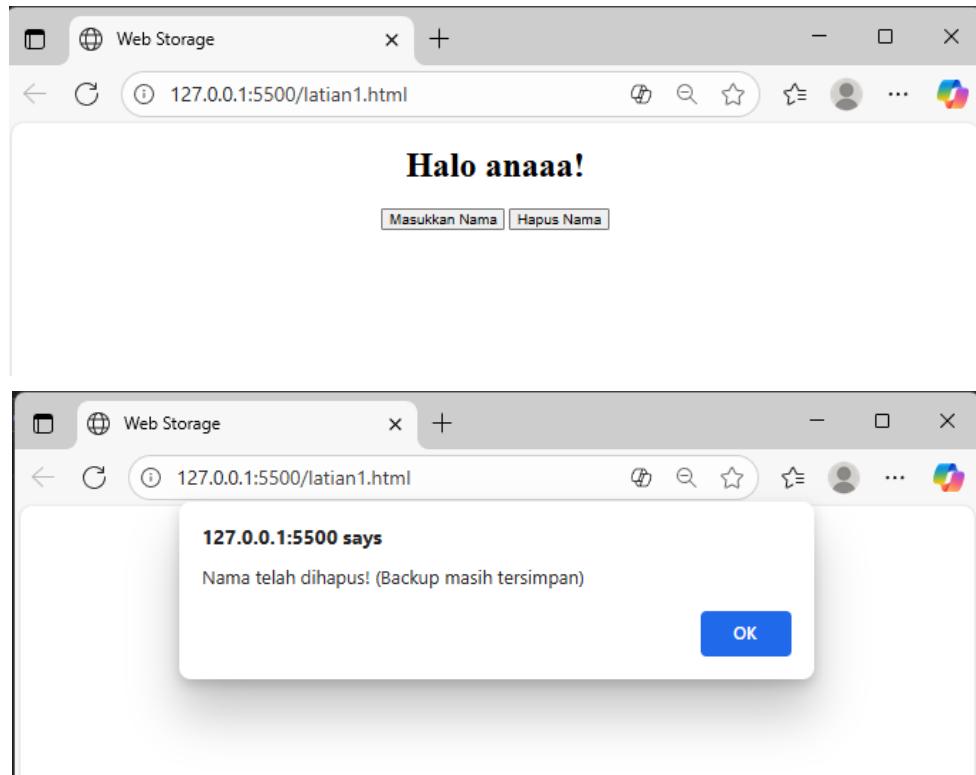


Modifikasi javascript sehingga data nama member tetap akan ada selama belum dihapus!

Kode:

```
latian1.html X latian2.html
latian1.html > html
1  <!DOCTYPE html>
2  <html>
3  <head>
4      <meta charset="utf-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1">
6      <title>Web Storage</title>
7  </head>
8  <body>
9      <center>
10         <h1>Selamat Datang, Member!</h1>
11         <button onclick="gantiNama(event)">Masukkan Nama</button>
12         <button onclick="hapusNama()">Hapus Nama</button>
13     </center>
14
15     <script type="text/javascript">
16         const namaMember = document.querySelector('h1');
17
18         // Mengecek apakah sudah ada nama tersimpan di localStorage
19         const namaTersimpan = localStorage.getItem('nama');
20         if (namaTersimpan) {
21             namaMember.innerHTML = 'Halo ' + namaTersimpan + '!';
22         }
23
24         function gantiNama() {
25             const nama = prompt('Masukkan nama Anda?');
26             if (nama && nama.trim() !== "") {
27                 localStorage.setItem('nama', nama);
28                 localStorage.setItem('namaBackup', nama); // Simpan backup
29                 namaMember.innerHTML = 'Halo ' + nama + '!';
30             } else {
31                 alert('Nama tidak boleh kosong!');
32             }
33             event.preventDefault();
34         }
35
36         function hapusNama() {
37             // Hanya hapus tampilan, data backup tetap ada
38             localStorage.removeItem('nama');
39             namaMember.innerHTML = 'Selamat Datang, Member!';
40             alert('Nama telah dihapus! (Backup masih tersimpan)');
41         }
42     </script>
43  </body>
44 </html>
```

Tampilan:



### Soal C - Tombol Hapus Nama:

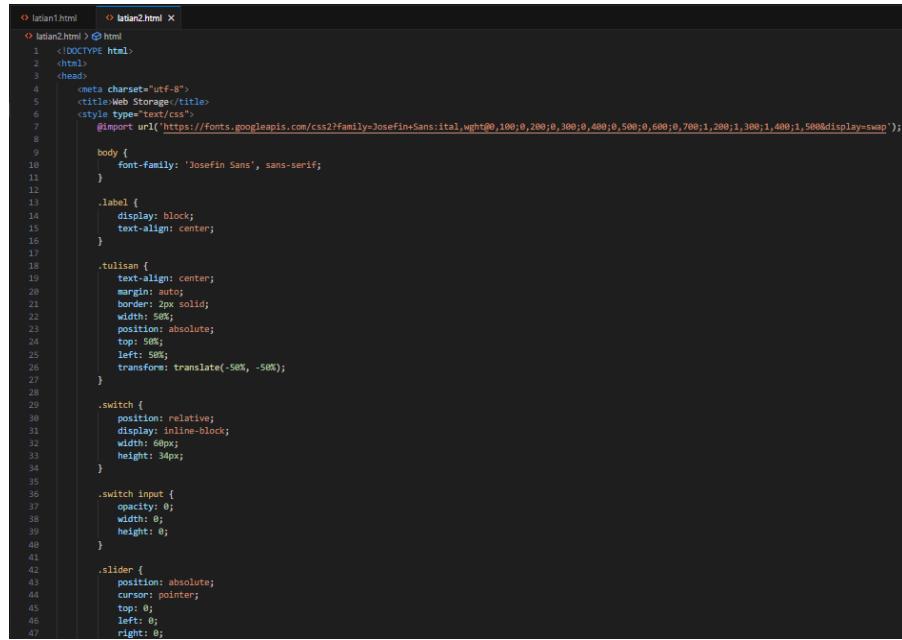
1. Ditambahkan fungsi `hapusNama()` yang menghapus data dari `localStorage` menggunakan `localStorage.removeItem('nama')`
2. Tampilan kembali ke "Selamat Datang, Member!"

### Soal D - Data Tetap Ada Meskipun Dihapus: Caranya dengan membuat sistem backup:

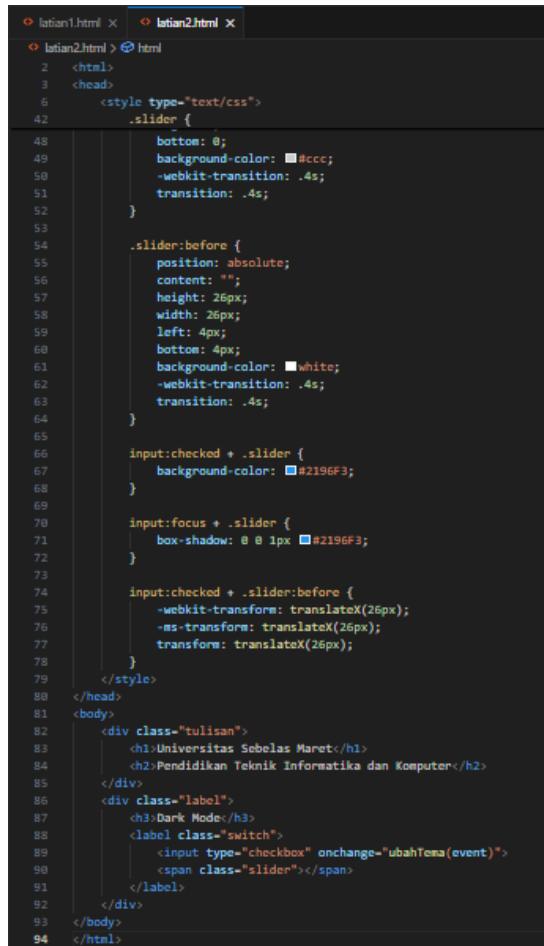
- Setiap kali input nama, selain disimpan di key '`nama`', juga disimpan di key '`namaBackup`'
- Fungsi `hapusNama()` hanya menghapus key '`nama`', tapi '`namaBackup`' tetap tersimpan
- Ditambahkan fungsi `restoreNama()` untuk mengembalikan nama dari backup

- Latihan2.html

Kode:

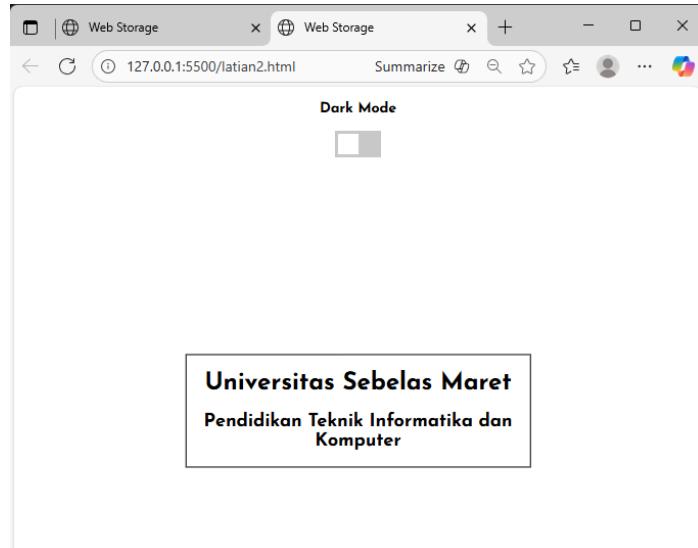


```
latian1.html  latian2.html
latian2.html > html
1  <!DOCTYPE html>
2  <html>
3  <head>
4  |   meta charset="utf-8"
5  |   title Web Storage</title>
6  |   style type="text/css">
7  |       @import url('https://fonts.googleapis.com/css2?family=Josefin+Sans:ital,wght@0,100;0,200;0,300;0,400;0,500;0,600;1,200;1,300;1,400;1,500&display=swap');
8
9
10 body {
11     font-family: 'Josefin Sans', sans-serif;
12 }
13
14 .label {
15     display: block;
16     text-align: center;
17 }
18
19 .tulisan {
20     text-align: center;
21     margin: auto;
22     border: 2px solid;
23     width: 50%;
24     position: absolute;
25     top: 50%;
26     left: 50%;
27     transform: translate(-50%, -50%);
28 }
29
30 .switch {
31     position: relative;
32     display: inline-block;
33     width: 60px;
34     height: 34px;
35 }
36
37 .switch input {
38     opacity: 0;
39     width: 0;
40     height: 0;
41 }
42
43 .slider {
44     position: absolute;
45     cursor: pointer;
46     top: 0;
47     left: 0;
48     right: 0;
```



```
latian1.html  latian2.html
latian2.html > html
1  <html>
2  <head>
3  <style type="text/css">
42      .slider {
43          bottom: 0;
44          background-color: #ccc;
45          -webkit-transition: .4s;
46          transition: .4s;
47      }
48
49      .slider:before {
50          position: absolute;
51          content: "";
52          height: 26px;
53          width: 26px;
54          left: 4px;
55          bottom: 4px;
56          background-color: white;
57          -webkit-transition: .4s;
58          transition: .4s;
59      }
60
61      input:checked + .slider {
62          background-color: #2196F3;
63      }
64
65      input:focus + .slider {
66          box-shadow: 0 0 1px #2196F3;
67      }
68
69      input:checked + .slider:before {
70          -webkit-transform: translateX(26px);
71          -ms-transform: translateX(26px);
72          transform: translateX(26px);
73      }
74  </style>
75  </head>
76  <body>
77      <div class="tulisan">
78          <h1>Universitas Sebelas Maret</h1>
79          <h2>Pendidikan Teknik Informatika dan Komputer</h2>
80      </div>
81      <div class="label">
82          <h3>Dark Mode</h3>
83          <label class="switch">
84              <input type="checkbox" onchange="ubahTema(event)">
85              <span class="slider"></span>
86          </label>
87      </div>
88  </body>
89  </html>
```

Tampilan:



Modifikasi file tersebut dengan menambahkan css dan javascript yang tepat dengan memanfaatkan local storage sehingga fungsi dark mode dapat berjalan ketika toggle dark mode dijalankan.

Kode:

```
latian1.html  latian2.html
latian2.html > html
1  <!DOCTYPE html>
2  <html>
3  <head>
4      <meta charset="utf-8">
5      <title>Web Storage</title>
6      <style type="text/css">
7          @import url('https://fonts.googleapis.com/css2?family=Josefin+Sans:ital,wght@0,100;0,200;0,300;0,400;0,500;0,600;0,700;1,200;1,300;1,400;1,500&display=swap');
8
9      body {
10          font-family: 'Josefin Sans', sans-serif;
11          transition: background-color 0.4s, color 0.4s;
12      }
13
14      .label {
15          display: block;
16          text-align: center;
17      }
18
19      .tulisan {
20          text-align: center;
21          margin: auto;
22          border: 2px solid;
23          width: 50px;
24          position: absolute;
25          top: 50%;
26          left: 50%;
27          transform: translate(-50%, -50%);
28          transition: border-color 0.4s;
29      }
30
31      .switch {
32          position: relative;
33          display: inline-block;
34          width: 60px;
35          height: 34px;
36      }
37
38      .switch input {
39          opacity: 0;
40          width: 0;
41          height: 0;
42      }
43
44      .slider {
45          position: absolute;
46          cursor: pointer;
47          top: 0;
```

```
latian1.html  latian2.html X
latian2.html > html
2   <html>
3     <head>
6       <style type="text/css">
44         .slider {
48           left: 0;
49           right: 0;
50           bottom: 0;
51           background-color: #ccc;
52           -webkit-transition: .4s;
53           transition: .4s;
54           border-radius: 34px;
55         }
56
57         .slider:before {
58           position: absolute;
59           content: "";
60           height: 26px;
61           width: 26px;
62           left: 4px;
63           bottom: 4px;
64           background-color: white;
65           -webkit-transition: .4s;
66           transition: .4s;
67           border-radius: 50%;
68         }
69
70         input:checked + .slider {
71           background-color: #2196F3;
72         }
73
74         input:focus + .slider {
75           box-shadow: 0 0 1px #2196F3;
76         }
77
78         input:checked + .slider:before {
79           -webkit-transform: translateX(26px);
80           -ms-transform: translateX(26px);
81           transform: translateX(26px);
82         }
83
84         /* Dark Mode Styles */
85         body.dark-mode {
86           background-color: #333;
87           color: white;
88         }
```

```
latian1.html latian2.html X
latian2.html > html
1 <html>
2   <head>
3     <style type="text/css">
4       body.dark-mode .tulisan {
5         border-color: white;
6         background-color: #444;
7       }
8     </style>
9   </head>
10  <body>
11    <div class="tulisan">
12      <h1>Universitas Sebelas Maret</h1>
13      <h2>Pendidikan Teknik Informatika dan Komputer</h2>
14    </div>
15    <div class="label">
16      <h3>Dark Mode</h3>
17      <label class="switch">
18        <input type="checkbox" id="darkModeToggle" onchange="ubahTema(event)">
19        <span class="slider"></span>
20      </label>
21    </div>
22
23    <script>
24      // Load dark mode preference saat halaman dimuat
25      window.addEventListener('load', function() {
26        const isDarkMode = localStorage.getItem('darkMode') === 'true';
27        if (isDarkMode) {
28          document.body.classList.add('dark-mode');
29          document.getElementById('darkModeToggle').checked = true;
30        }
31      });
32
33      // Fungsi untuk mengubah tema
34      function ubahTema(event) {
35        const isDarkMode = event.target.checked;
36
37        if (isDarkMode) {
38          document.body.classList.add('dark-mode');
39          localStorage.setItem('darkMode', 'true');
40        } else {
41          document.body.classList.remove('dark-mode');
42          localStorage.setItem('darkMode', 'false');
43        }
44      }
45    </script>
46  </body>
47 </html>
```

Tampilan:

