JAVASCRIPT

JavaScript adalah bahasa pemrograman tingkat tinggi yang digunakan terutama untuk membuat halaman web interaktif. Ini adalah salah satu teknologi penting dalam pengembangan web, selain HTML dan CSS. JavaScript memungkinkan developer menambahkan fitur seperti animasi, validasi formulir, dan interaksi dinamis lainnya ke dalam halaman web

Latihan 1, Objek Javascript Alert

Latihan 2, Objek Javascript Prompt

Latihan3, Object Javascript Confirm

Latihan 4, Membuat Pop Up Objeck Javascript dan CSS

Latihan 5, Menampilkan Grafik dengan Vanilla js dan CSS

```
<!DOCTYPE html>
<html lang="id">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Grafik Batang dengan CSS dan Vanilla JavaScript</title>
<style>
    .chart-container {
        display: flex;
        align-items: flex-end;
        width: 100%;
        height: 300px;
        border-bottom: 2px solid #333;
        padding-bottom: 30px;
```

```
margin: 0 20px;
const chartContainer = document.querySelector('.chart-container');
```

```
data.forEach((value, index) => {
    const bar = document.createElement('div');
    bar.classList.add('bar');
    bar.style.height = `${value}%`;
    bar.dataset.label = labels[index] + ',' + value +'%';
    chartContainer.appendChild(bar);
    });
    </script>
    </body>
    </html>
```

Latihan 6, membuat jam digital dengan objek javascript

Latihan 7, Membuat Kalender Sederhana Dengan Objek Javascript

```
!DOCTYPE html>
         box-shadow: 0 2px 10px rgba(0, 0, 0, 0.1);
         display: flex;
         padding: 5px;
```

```
.calendar-title {
   display: grid;
   grid-template-columns: repeat(7, 1fr);
   gap: 5px;
```

```
const calendarDaysElement = document.getElementById('calendarDays');
const prevMonthButton = document.getElementById('prevMonth');
const nextMonthButton = document.getElementById('nextMonth');
   const year = currentDate.getFullYear();
    const month = currentDate.getMonth();
    const daysInMonth = lastDayOfMonth.getDate();
    const firstDayOfWeek = firstDayOfMonth.getDay(); // 0 (Minggu) - 6 (Sabtu)
        const weekdayElement = document.createElement('div');
        calendarDaysElement.appendChild(weekdayElement);
```

```
calendarDaysElement.appendChild(emptyDay);
                          if (year === new Date().getFullYear() && month === new
Date().getMonth() && day === new Date().getDate()) {
              calendarDaysElement.appendChild(dayElement);
          currentDate.setMonth(currentDate.getMonth() - 1);
          renderCalendar();
          currentDate.setMonth(currentDate.getMonth() + 1);
          renderCalendar();
```

Latihan 8, War Game Javascript

```
<!DOCTYPE html>
<html>
<head>
<style>
body{ margin:10px; background:#CCC; }
#my_canvas{ background:#FFF; border:#000 1px solid; }
</style>
```

```
function initCanvas(){
  var ctx = document.getElementById('my canvas').getContext('2d');
  function renderEnemies(){
  function Launcher() {
this.bg="orange", this.missiles = [];
              var m = this.missiles[i];
              ctx.fillStyle = m.bg;
              ctx.fillRect(m.x, m.y-=5, m.w, m.h);
                        this.missiles.splice(i,1); // Splice that missile out of the
          if(enemies.length == 0){
```

```
var e = enemies[i];
                   enemies.splice(i,1); // Remove the enemy that the missile hit
                       document.getElementById('status').innerHTML = "You destroyed "+
e.id;
  function animate(){
      launcher.render();
      renderEnemies();
  var left btn = document.getElementById('left btn');
  var right btn = document.getElementById('right btn');
  var fire btn = document.getElementById('fire btn');
  left btn.addEventListener('mouseup', function(event) {
      launcher.dir = '';
  fire btn.addEventListener('mousedown', function(event) {
```

```
launcher.missiles.push({"x":launcher.x+launcher.w*.5,"y":launcher.y,"w":3,"h":10,"bg":
    "red"});
    });
}
window.addEventListener('load', function(event) {
    initCanvas();
});
</script>
</head>
<body>
<canvas id="my_canvas" width="500" height="350"></canvas>
<div>
    <button id="left_btn">Move Left</button>
    <button id="right_btn">Fire Missile</button>
</div>
<h3 id="status"></h3>
</body>
</html>
```

Latihan 9, Fetch Javascript

```
</body>
</html>
```

10. API (Application Programming Interface)

```
<title>Fetch Javacript</title>
<script type="text/javascript">
    function ambildata() {
```