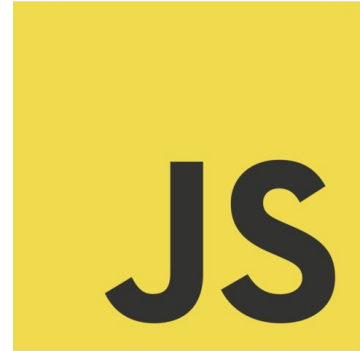# Praktikum 5 - Web
JavaScript (2)

Function - Definition

Another essential concept in coding is functions, which allow you to store a piece of code that does a single task inside a defined block, and then call that code whenever you need it using a single short command — rather than having to type out the same code multiple times

Function - Example

```javascript
let a = 2;
let b = 3;
let c = 4;
let jum = a + b + c;
let rataRata = jum / 3;

let x = 5;
let y = 6;
let z = 7;
let jum = x + y + z;
let rataRata = jum / 3;

let o = 10;
let p = 20;
let q = 30;
let jum = o + p + q;
let rataRata = jum / 3;
```

```javascript
function hitungRataRata(a, b, c) {
    let bilPertama = a;
    let bilKedua = b;
    let bilKetiga = c;


    let jum = bilPertama + bilKedua + bilKetiga;
    let rataRata = jum / 3;


    console.log(rataRata);
}

hitungRataRata(2, 3, 4);
hitungRataRata(5, 6, 7);
hitungRataRata(10, 20, 30);
```

Function - Create Function

- keyword function
- nama function
- tanda kurung

```
function hello() {
    console.log("Hello Semua");
}

hello();
```

Function - Parameter

- parameter nama
- parameter umur

```javascript
function hello (nama, umur) {
  console.log(nama, umur);
}

hello("Abdul", 20);
```
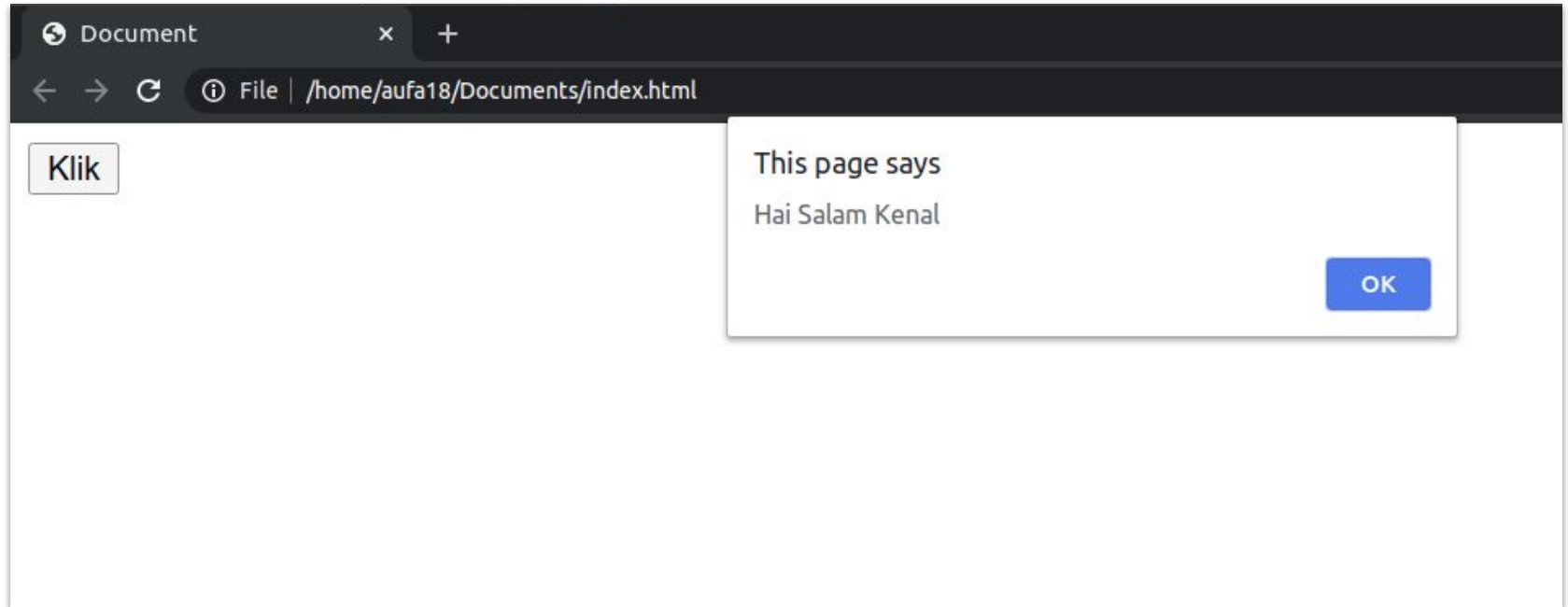
Function - Return

- nama function
- parameter
- keyword return

```javascript
function sum (a, b) {
  hasil = a + b;
  return hasil;
}

const hasilPenjumlahan = sum(5, 4);

console.log(hasilPenjumlahan);
```

DOM – Example

DOM - Selecting elements

DOM Selection:
- Select Element By ID
- Select Element By Tag Name
- Select Element By Class Name
- Select Element With CSS Selector

```html
<p id="p1">Paragraf 1</p>
<p class="p2">Paragraf 2</p>
<p class="p3">Paragraf 3</p>

<script>
    const p1 = document.getElementById('p1');
    const p2 = document.getElementsByTagName('p');
    const p3 = document.getElementsByClassName('p2');
    const p4 = document.querySelector('.p3');
</script>
```

DOM - Changing Element

Manipulating Element:
- innerHTML

```html
<h1 class="judul">Selamat Datang</h1>

<script>
    const judul = document.querySelector(".judul");
    console.log(judul);
    judul.innerHTML = "Hai Semuanya";
</script>
```

DOM - Event

Event Handler:
- **event attribute**
- event listener

```html
<p onclick="salam()">Klik Saya</p>

<script>
    function salam() {
        console.log("Hai Salam Kenal");
    }
</script>
```

DOM - Event

Event Handler:
- event attribute
- **event listener**

```html
<p class="klik">Klik Saya</p>

<script>
    const klik = document.querySelector(".klik");

    klik.addEventListener("click", function() {
        console.log("Hal Salam Kenal");
    })
</script>
```

DOM - Practice

Stay Foolish Stay Hungry

- Web Programming Unpas: JS DOM
- Freecodecamp: JavaScript DOM
- JavaScript Tutorial: JavaScript DOM