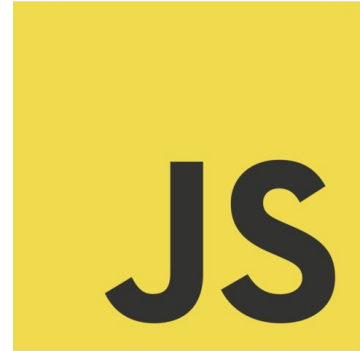# Praktikum 4 - Web

JavaScript

JS

JavaScript

JavaScript is a scripting or programming language that allows you to implement complex features on web pages — every time a web page does more than just sit there and display static information for you to look at — displaying timely content updates, interactive maps, animated 2D/3D graphics, scrolling video jukeboxes, etc. — you can bet that JavaScript is probably involved. It is the third layer of the layer cake of standard web technologies, two of which (HTML and CSS) we have covered in much more detail in other parts of the Learning Area.

What it can really do?

- [Change Background Color](#)
- Clock
- Calculator
- Animation (CSS)
- Slider
- Todo List
- Everything that require user interaction

Add JavaScript

- internal stylesheet
- external stylesheet

```
<script>
  // syntax
</script>
```

```
<script src="script.js">
</script>
```

JavaScript Output

- document.write()
- window.alert()
- console.log

```
<script>
  document.write("Hello")
</script>
```

```
<script>
  window.alert("Hello")
</script>
```

```
<script>
  console.log("Hello")
</script>
```

Variable, Data Types

- string
- number
- boolean
- undefined

```
<script>
  var nama = "Alex";
  var umur = 20;
  var status = false;
  var mantan;
</script>
```

Conditional

Conditional:
- if
- else
- else if

```
<script>
  if (kondisi) {
      // syntax
  }
  else if (kondisi) {
      // syntax
  }
  else {
      // syntax
  }
</script>
```

Looping

looping:
- for
- while
- do while
- for in
- for of

```
<script>
  for (nilai awal; kondisi; iterator) {
      // syntax
  }

  nilai awal;
  while (kondisi) {
      // syntax
      // iterator
  }
</script>
```

Case Study

1. Assesment
    1.1.   User memasukan nilai dari 1 - 100
    1.2.   Terdapat ketentuan penilaian
        1.2.1.   Jika nilai di atas 90, maka grade A
        1.2.2.   Jika nilai di atas 80, maka grade B
        1.2.3.   Jika nilai di atas 70, maka grade C
        1.2.4.   Jika di bawah 70, maka grade D
2. Even Number
    2.1.   Menampilkan bilangan genap dengan for dan while

Stay Foolish Stay Hungry

- Web Programming Unpas: <u>JS Dasar</u>, <u>JS DOM</u>, <u>JS Lanjutan</u>
- Freecodecamp: <u>JavaScript Full Course</u>
- MDN: <u>JavaScript - Dynamic client-side scripting</u>