

Information Technology Department - State Polytechnic of Malang Jobsheet-03: Javascript (Data types, operators, and function) Course: Web Programming / Web Design and Programming

Instructor: Web Design and Programming Teaching Team

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Nama: Kartiko Widyotomo

NIM: 244107060010

Kelas: SIB 2G

Topic

1. Introduction to Basic Concepts of JavaScript

2. Data Types, Operators, and Functions in JavaScript

3. JavaScript in HTML

Objectives

Students are expected to:

- 1. Understanding the concept of Javascript
- 2. Understanding Data types, operators and functions in javascript
- 3. Students are able to run javascript in HTML files

Introduction

JavaScript is a client-side programming language used for web development. A client-side programming language means that the processing is done on the client's side. The client application in this case refers to web browsers such as Google Chrome and Mozilla Firefox. Client-side programming languages differ from server-side programming languages like PHP, where all the program code is executed on the server side.

To run JavaScript, you only need a text editor and a web browser. JavaScript offers features such as being a high-level programming language, client-side, loosely typed, and object-oriented. Initially, JavaScript was developed to make interactions between users and websites faster without having to wait for processing on the web server. Before JavaScript, every interaction from the user had to be processed by the web server.

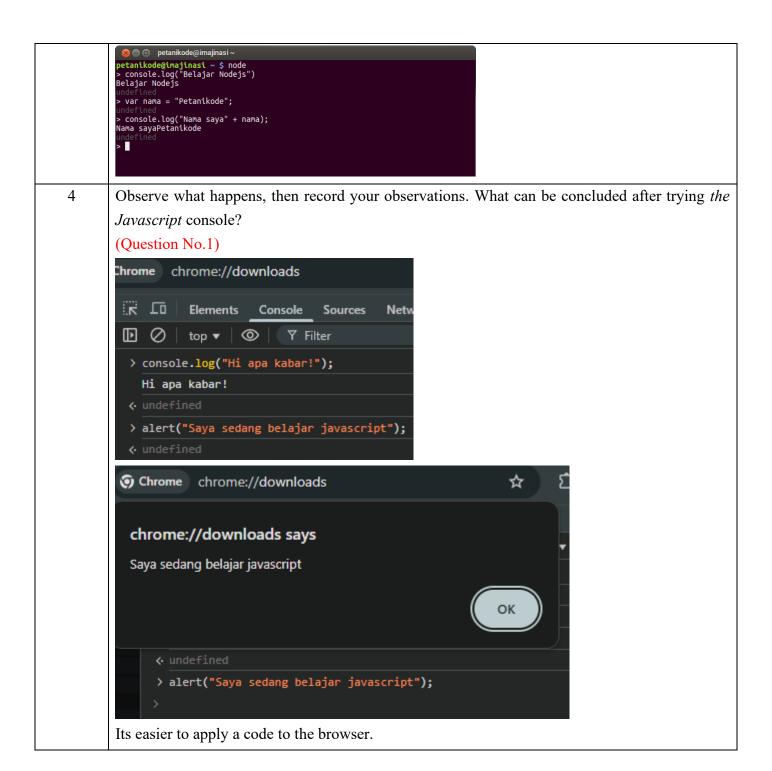
Imagine when you fill out a registration form on a website, click the submit button, wait about 10 seconds for the website to process the form, and then receive a page stating that some form fields were left unfilled. This is the kind of situation for which JavaScript was developed. The processing to check whether all form fields have been filled can be transferred from the web server to the web browser.

As JavaScript evolved, it became useful not only for form validation but also for many modern purposes. Various animations to beautify web pages, chat features, modern effects, games—all of these can be created using JavaScript. There are 3 main ways to write JavaScript tags:

- 1. Writing the tag with <script type="text/javascript"> at the start and ending with </script>. The attribute informs the browser that the script within the tag is JavaScript in text format.
- 2. Writing the tag with <script language="javascript"> at the start and ending with </script>. This attribute is used to specify the version of JavaScript being used. For example, <script language="javascript1.2"> indicates that the version of JavaScript used is 1.2.
- 3. Writing the tag with <script language="javascript" type="text/javascript"> at the start and ending with </script>. This mixed method combines the old and new ways of writing, allowing compatibility for web browsers that support JavaScript but may not yet support HTML fully.

Practical Section 1: Learning Javascript

Step	Description
1	We can open the JavaScript console through Inspect Element -> Console. Ubuntu Start Page Modilla Firefox
	In the console, we can write functions or JavaScript code, and the results will be displayed immediately.
2	For example, let's try the following code: console.log("Hi apa kabar!"); alert("Saya sedang belajar javascript");
	Observe what appears on the console, then record your observations!.
3	If you are using Nodejs, then the way to access <i>the</i> console is to type the node's command in the Terminal.



Practical Section 2: Creating the First Javascript Program

Step	Description	
1	Please open a text editor, then create a new file named hello_world.html	
2	Type the program code below:	

```
<!DOCTYPE html>
         <html>
         <head>
             <title>Hello World Javascript</title>
         </head>
         <body>
             <script>
                 console.log("Saya belajar Javascript");
                 document.write("Hello World!");
             </script>
         </body>
         </html>
       Save it as hello_world.html, then open the file with a web browser.
3
4
       Observe what happens in the browser, then record your observations
       (Question No.2)
                     (i) localhost/pweb_jobsheet3/hello_world.html
        Hello World!
       It prints out words ("Hello World!")
5
       Now try to open the javascript console, right click page in the browser, then choose
       Inspect Elements > Console
6
       Observe what happens in the Console tab, then record your results!
       (Question No. 3)
        Saya belajar Javascript
       Its shows the console.log command but in the console.
7
       Earlier, we wrote the command:
         console.log("Saya belajar Javascript");
```

Why do you think the command is not displayed?

(Question No.4)

The command is run, but the browser only shows the result of that command, not the command

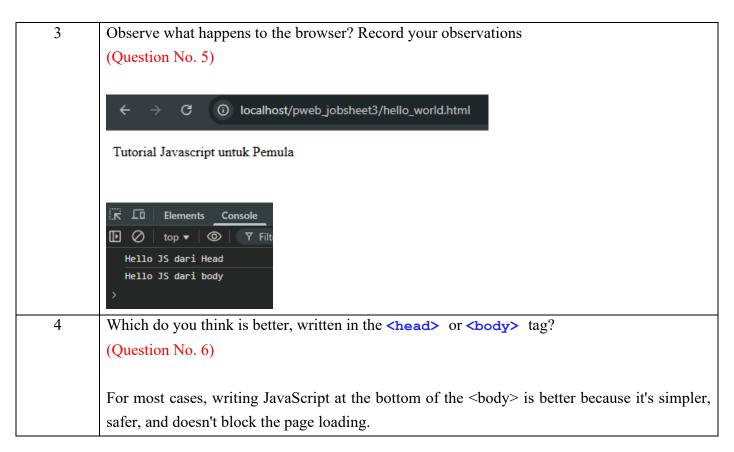
text itself. So, we won't see console.log("Saya belajar Javascript"); on the screen, only "Saya belajar Javascript" in the console output.

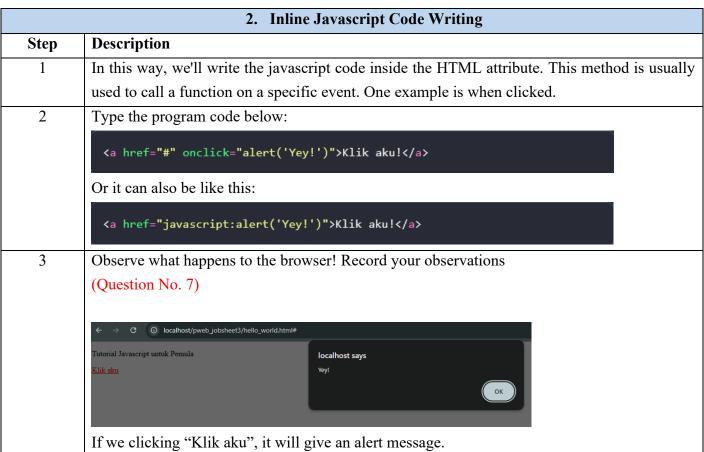
Practical Section 3: How to Write Javascript Code in HTML

In practicum 2 we have written javascript code in HTML, this method is an embeded writing method. Some other ways that we need to know include:

- 1. *Embed* (Javascript code pasted directly into HTML)
- 2. *Inline* (Javascript code written on HTML attributes)
- 3. *External* (Javascript code is written separately from the HTML file)

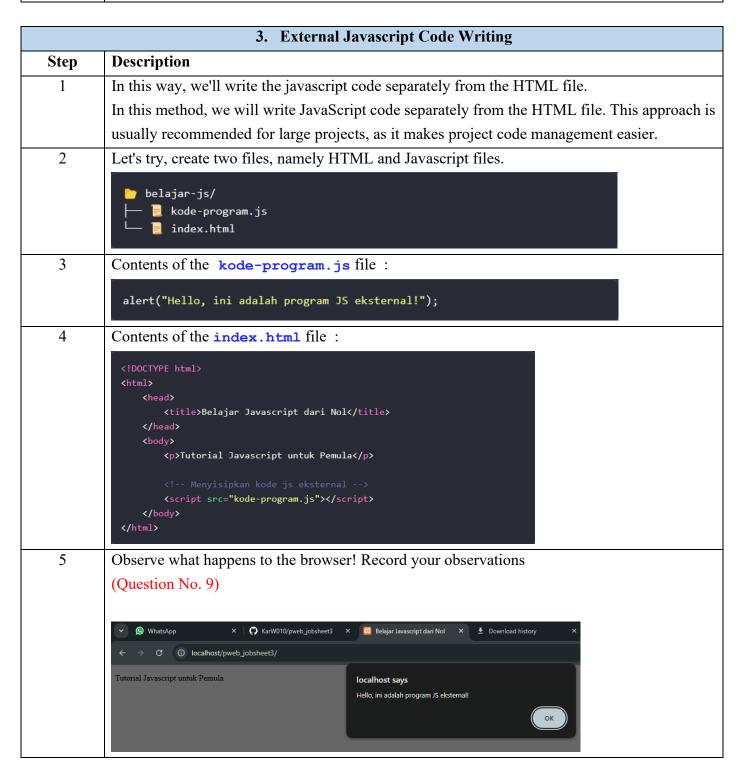
1. Writing Javascript Code with Embed	
Step	Description
1	In this way, we use the script> tag to embed the Javascript code in the HTML. These tags
	can be written in the <head> and <body> tags</body></head>
2	Type the program code below:
	html
	<html></html>
	<head></head>
	<title>Belajar Javascript dari Nol</title>
	<script></td></tr><tr><td></td><td>// ini adalah penulisan kode javascript</td></tr><tr><td></td><td>// di dalam tag <head></td></tr><tr><td></td><td>console.log("Hello JS dari Head");</td></tr><tr><td></td><td></script>
	 body>
	Tutorial Javascript untuk Pemula
	<script></td></tr><tr><td></td><td>// ini adalah penulisan kode javascript</td></tr><tr><td></td><td>// di dalam tag <body></td></tr><tr><td></td><td>console.log("Hello JS dari body");</td></tr><tr><td></td><td></script>





What is the difference between the two program codes
(Question No. 8)

For the onclick="..." javascript runs when the click event happens, while for href="javascript=..." javascript runs when the link is followed (clicked).



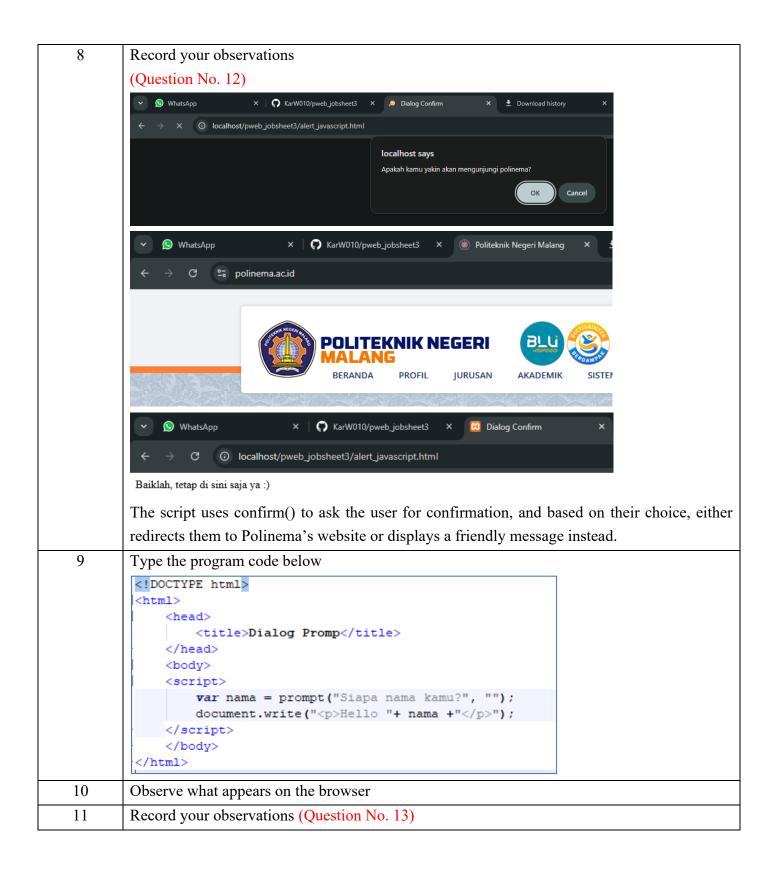
	The alert appears because the HTML file calls the external JavaScript file, which contains an
	alert() function. The browser loads and runs that code as soon as it reaches the <script src=""></th></tr><tr><th></th><th>tag.</th></tr><tr><td>6</td><td>In the experiment, we wrote separate javascript code with HTML code.</td></tr><tr><td></td><td>Then in the HTML code we insert the src attribute in the <script> tag</td></tr><tr><td></td><td><pre><! Menyisipkan kode js eksternal> <script src="kode-program.js"></script>
	Then anything in kode-program. js file will be readable from index.html file
7	What would happen if the javascript file was in a different folder?
	Observe and record your observations
	(Question No. 10)
	If the JavaScript file is in a different folder, we must update the src attribute in the <script></td></tr><tr><td></td><td>tag to point to the correct location. Otherwise, the browser will not find or run the file, and no</td></tr><tr><th></th><th>JavaScript will execute.</th></tr><tr><td>8</td><td>Suppose we have a folder structure like this:</td></tr><tr><th></th><th><pre>belajar-js/ </th></tr><tr><td></td><td>So to insert the kode-program. js file into the HTML, we can write the following code:</td></tr><tr><td></td><td><pre><script src="js/kode-program.js"></script>
	Because the kode-program. js file is in the js directory.
	We can also insert javascript that exists on the internet by providing the full URL address.
	Example:
	<pre><script src="https://www.petanikode.com/js/kode.js"></script></pre>

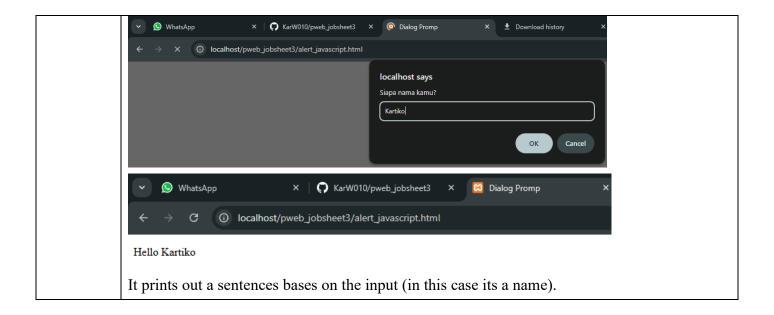
Practical Section 4: Dialogue Window

A dialog window is a window used to interact with users. There are three types of dialog windows in Javascript:

- 1. The alert() dialog window;
- 2. The confirm() dialog window;
- 3. The prompt dialog window (); Web Programming Chapter 03

```
Step
           Description
  1
           Create a new file alert javascript.html and save it in the project folder.
  2
           Type the program code below
            <html>
            <head>
            <script type="text/javascript">
            function message()
            alert("This alert box was called with
            the onload event")
            </script>
            </head>
            <body onload="message()">
            </body>
            </html>
 3
           Observe what appears on the browser
  4
           Record your observations
           (Question No. 11)
            ✓ ⑤ WhatsApp
                              × ☑ KarW010/pweb_jobsheet3 × @ localhost/pweb_jobsheet3/a × ± Download history
              → X (i) localhost/pweb_jobsheet3/alert_javascript.html
                                                   localhost says
                                                   This alert box was called with the onload event
           The alert appears automatically because the onload event in the <body> tag calls the message()
           function when the page finishes loading. This function displays the alert box using alert().
  5
           Create a new file named confirm javascript.html and save it in the project folder
  6
           Type the program code below
            <!DOCTYPE html>
            <html>
               <head>
                   <title>Dialog Confirm</title>
                </head>
                <body>
                <script>
                   var yakin = confirm("Apakah kamu yakin akan mengunjungi polinema?");
                   if (yakin) {
                       window.location = "https://www.polinema.ac.id";
                       document.write("Baiklah, tetap di sini saja ya :)");
                   }
                </script>
                </body>
  7
           Observe what appears on the browser
```





Practical Section 5: Variables

The way to create a variable that is commonly used in javascript is to use the var keyword followed by the name of the variable and its value.

Example: var title = "Learn Javascript Programming";

Displaying the contents of a Variable

To display the contents of the variables, we can utilize functions to display outputs such as:

- The console.log() function returns the output to the javascript console;
- The document.write() function returns the output to an HTML document;
- and the alert () function returns the output to the dialog window.

Step	Description
1	Create a new file variable_javascript.html and save it in the project folder.
2	Type the program code below

```
<!DOCTYPE html>
         <html lang="en">
         <head>
             <title>Belajar Variabel dalam Javascript</title>
                 // membuat variabel
                 var name = "Javascript";
                 var visitorCount = 50322;
                 var isActive = true;
                  // menampilkan variabel ke jendela dialog (alert)
                 alert("Selamat datang di " + name);
                  // menampilkan variabel ke dalam HTML
                  document.write("Nama Situs: " + name + "<br>");
                  document.write("Jumlah Pengunjung: " + visitorCount + "<br>");
                  document.write("Status Aktif: " + isActive + "<br>");
             </script>
         </head>
         <body>
         </body>
         </html>
3
        Observe what appears on the browser
4
        Record your observations
        (Question No. 14)
                             X SarW010/pweb_jobsheet3 X Selajar Variabel dalam Javas X Download history
                   ① localhost/pweb_jobsheet3/variable_javascript.html
                                                  localhost says
                                                   Selamat datang di Javascript
              WhatsApp
                                        🔀 Belajar Variabel dalam Javas
                       ① localhost/pweb_jobsheet3/variable_javascript.html
         Nama Situs: Javascript
         Jumlah Pengunjung: 50322
         Status Aktif: true
        The code creates variables to store a site name, visitor count, and status, then shows a welcome
        alert using the site name. It also displays these variable values directly on the webpage using
```

Deleting Variables

In JavaScript, deleting variables is uncommon. However, in programs where careful memory management is crucial, removing variables is important to ensure more efficient memory usage. This can be achieved using the **delete** keyword.

document.write().

Example:

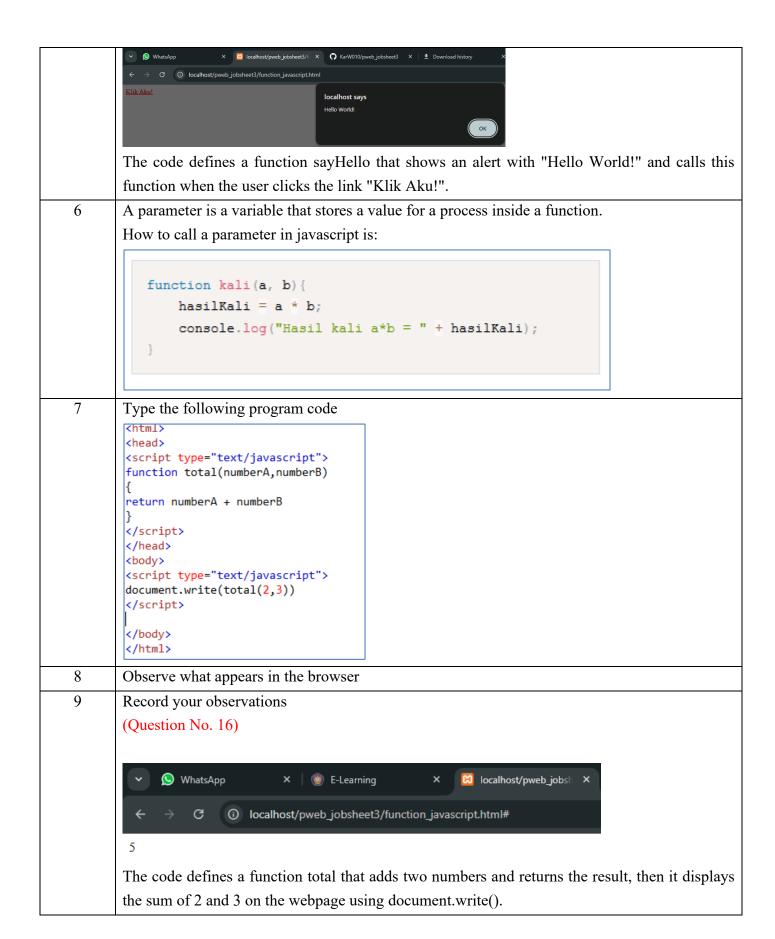
```
var bookTitle = "Learn Javascript Programming";
delete bookTitle;
```

Then the **bookTitle** variable will disappear from memory.

Practical Section 6: Functions

Functions are sub-programs that can be reused both within the program itself, and in other programs. A function in Javascript is an object. Because it has properties and also *methods*.

Step	Description		
1	Create a new File named function_javascript.html and save it in the project folder		
2	How to call a function in Javascript code is usually written with:		
	<pre>functionName();</pre>		
3	Type the following program code		
	html <html> <head></head></html>		
4	Observe what appears in the browser		
5	Record your observations		
	(Question No. 15) ✓ ⑤ WhatsApp × ☒ localhost/pweb_jobsheet3/fc × ← → ♂ ⑥ localhost/pweb_jobsheet3/function_javascript.html Klik Aku!		



Practical Section 7: Data Types

Data types are the types of data that we can store in variables. There are several types of data in Javascript programming:

- String (text)
- Integer or Number
- Float (number of Fractions)
- Boolean
- Object

Javascript is a *dynamic typing* language, which means that we don't have to write data types when creating variables like in \underline{C} , $\underline{C++}$, \underline{Java} , etc. which are *static typing*. There are several rules for writing variables in Javascript:

- Variable naming **should not** use numbers in front of it. example:

```
// wrong
var 123name = "Polinema";

// right
var name123 = "Polinema";
```

- Variable naming **can** use the initial underscore. example:

```
var _nama = "Polinema";
```

Variable naming is recommended using camelCase if it consists of two syllables.
 Example:

```
var _fullName = "Polinema";
```

 Variable naming is recommended using English Example:

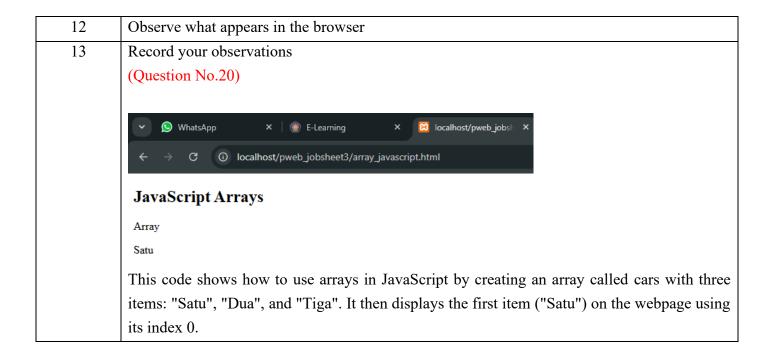
```
var _postTitle = "Javascript Tutorials";
```

Step	Description
1	Create a new File named datatype_javascript.html and save it in the project folder.
2	Type the following program code

```
<!DOCTYPE html>
          <html>
          <body>
          <h2>JavaScript Data Types</h2>
          Contoh Javascript Data Types:
          <script>
                      // Now x is undefined
          var x;
                      // Now x is a Number
          x = 5;
          x = "John";
                        // Now x is a String
          document.getElementById("demo").innerHTML = x;
          </script>
          </body>
          </html>
3
        Observe what appears in the browser
4
        Record your observations
        (Question No. 17)
             WhatsApp
                                                        🔀 localhost/pweb_jobsh 🗙
                               ① localhost/pweb_jobsheet3/datatype_javascript.html
         JavaScript Data Types
         Contoh Javascript Data Types:
        The code demonstrates JavaScript's dynamic typing by first declaring a variable x as undefined,
        then assigning it a number (5), and finally a string ("John"). The last value, "John", is displayed
        on the webpage inside the paragraph with the id demo.
5
        Type the program below and save it with the string_javascript.html name
```

```
<!DOCTYPE html>
         <html>
         <body>
         <h2>JavaScript Strings</h2>
         Membuat Javascript String
         <script>
         var answer1 = "It's alright";
var answer2 = "He is called 'Dilan'";
         var answer3 = 'He is called "Dilan";
         document.getElementById("demo").innerHTML =
         answer1 + "<br>" +
answer2 + "<br>" +
         answer3;
         </script>
         </body>
         </html>
6
         Observe what appears in the browser
        Record your observations
        (Question No. 18)
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              WhatsApp
                                × @ E-Learning
                   G
                        localhost/pweb_jobsheet3/string_javascript.html
         JavaScript Strings
         Membuat Javascript String
         It's alright
         He is called 'Dilan'
         He is called "Dilan"
         The code shows how to create JavaScript strings using single and double quotes, including how
        to include quotes inside strings. It then displays three example strings with different quote styles
        on the webpage.
8
        Type the program below and save it with the boolean javascript.html name
```

```
<!DOCTYPE html>
         <html>
         <body>
         <h2>JavaScript Booleans</h2>
         Booleans hanya memiliki nilai true dan false
         <script>
         var x = 5;
         var y = 5;
         var z = 6;
         document.getElementById("demo").innerHTML =
         (x == y) + " < br > " + (x == z);
         </script>
         </body>
         </html>
9
        Observe what appears in the browser
10
        Record your observations
        (Question No. 19)
                                               × localhost/pweb_jobsh >
             WhatsApp
                            × @ E-Learning
             → C ① localhost/pweb_jobsheet3/boolean_javascript.html
         JavaScript Booleans
         Booleans hanya memiliki nilai true dan false
         false
        The code demonstrates JavaScript boolean values by comparing variables: x == y returns true
        because both are 5, while x == z returns false because 5 is not equal to 6.
11
        Type the program below and save it with the array_javascript.html name
         <!DOCTYPE html>
         <html>
         <body>
         <h2>JavaScript Arrays</h2>
         Array
         <script>
         var cars = ["Satu","Dua","Tiga"];
         document.getElementById("demo").innerHTML = cars[0];
         </script>
         </body>
          </html>
```



Practical Section 8: Operator

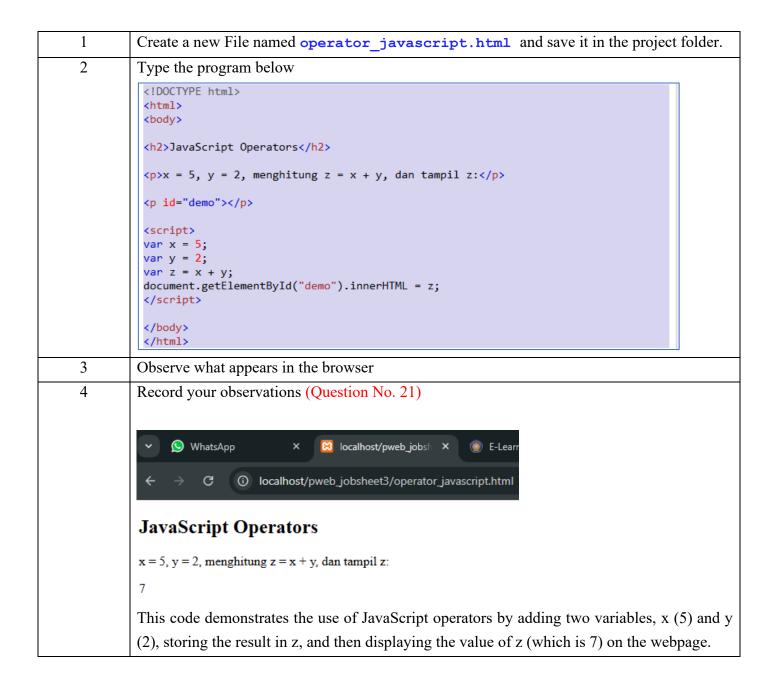
An operator is a symbol used to perform operations on a value and variable. Operators in programming are divided into 6 types:

- 1. Arithmetic operator;
- 2. Assignment Operator;
- 3. relationship or comparison operators;
- 4. Logic Operators;
- 5. Bitwise Operator;
- 6. Ternary Operator;

An arithmetic operator is an operator to perform arithmetic operations such as addition, subtraction, division, multiplication, etc. Arithmetic operators consist of:

Operator Name	Symbol
Addition	+
Reduction	-
Multiplication	*
Appointment	**
Division	/
Leftover	%

64	Dagawindian	
Step	Description	
~ tcp	I	



Practical Section 9: Branching

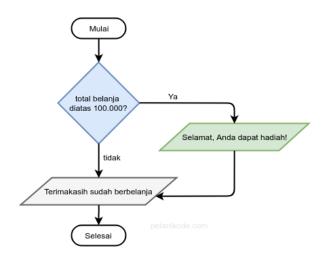
It can be said that branching and looping are one of the core methods in all programming languages worldwide. With branching and looping, a dynamic program can be created instead of a linear and static one. Since JavaScript is a method for client-side web programming, it also has this capability.

Some branching functions include:

- Use if to specify a block of code to be executed, if a specified condition is true
- Use else to specify a block of code to be executed, if the same condition is false
- Use else if to specify a new condition to test, if the first condition is false
- Use switch to specify many alternative blocks of code to be executed

❖ if Branching

if branching is a structure that only has one block of choice when the condition is true. Take a look at the following flowchart:



"If the total purchase is greater than Rp 100,000, then display the message: Congratulations, you won a prize."

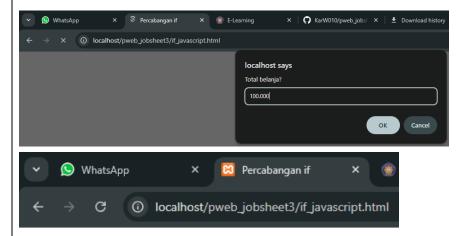
What if it is below Rp 100,000?

Yes, the message is not displayed.

Step	Description
1	Create a new File named if_javascript.html and save it in the project folder
2	Type the program below
	html <html lang="en"> <head></head></html>
3	Observe what appears in the browser

4 Record your observations

(Question No. 22)

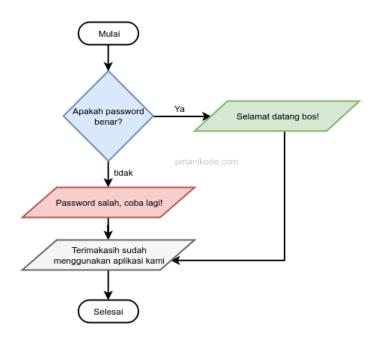


Terimakasih sudah berbelanja di toko kami

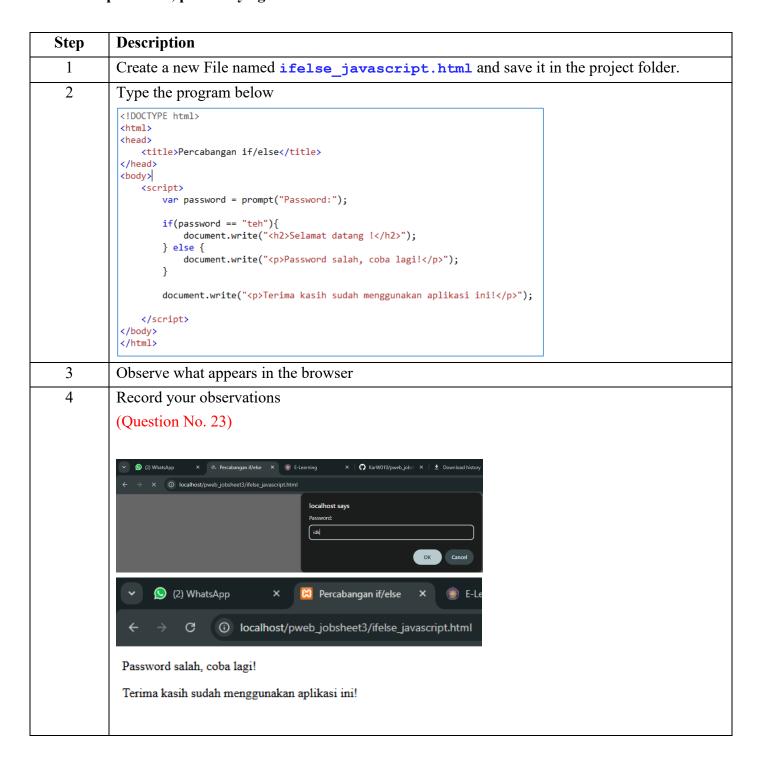
The code uses a prompt to ask for the total purchase amount, and if it's more than 30,000, it shows a prize message. In this case, only the thank you message appears because the entered amount doesn't meet the condition.

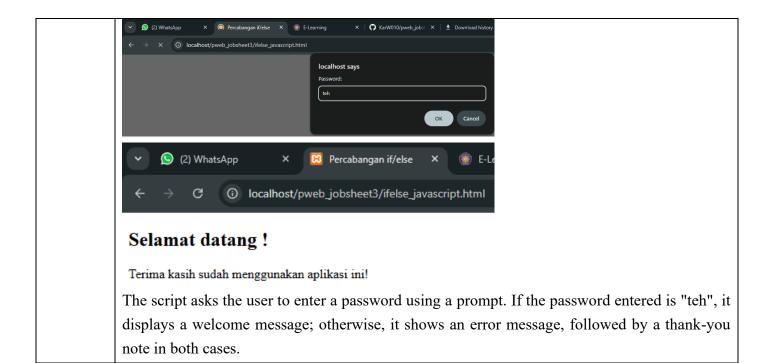
❖ if/else Branching

If/Else Branching is a structure that has **two blocks of choices**. The first choice is for when the **condition is true**, and the second choice is for when the **condition is false (else)**. Take a look at this flowchart:



This is a flowchart for checking the password. If the password is correct, the message in the green block will be displayed: "Welcome, boss!" However, if it is incorrect, the message in the red block will be shown: "Incorrect password, please try again!"





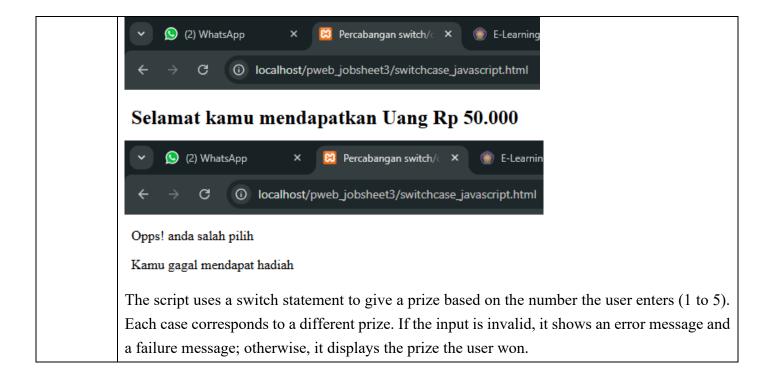
***** switch/case Branching

switch/case branching is an alternative form of the if/else/if branching structure. In a switch/case statement, instead of evaluating multiple if conditions, the program evaluates the value of a variable or expression and compares it against multiple possible cases. Each case represents a potential value, and when a match is found, the corresponding block of code is executed. If no case matches, the default case is executed (if provided), similar to the else block in if/else statements.

The switch/case structure can make code more readable and organized, especially when dealing with multiple conditions based on a single variable. The structure looks like this:

Step	Description
1	Create a new File named switchcase_javascript.html and save it in the project folder

2 Type the program below <!DOCTYPE html> <html> l<head> <title>Percabangan switch/case</title> </head> <body> <script> var jawab = prompt("Kamu beruntung! Silahakn pilih hadiahmu dengan memasukan angka 1 sampai 5"); var hadiah = ""; switch(jawab) { case "1": hadiah = "Tisu"; break; case "2": hadiah = "l Kotak Kopi"; break; case "3": hadiah = "Sticker"; break; case "4": hadiah = "Minyak Goreng"; break; hadiah = "Uang Rp 50.000"; break; default: document.write("0pps! anda salah pilih");} if(hadiah === ""){ document.write("Kamu gagal mendapat hadiah"); document.write("<h2>Selamat kamu mendapatkan " + hadiah + "</h2>"); 1 </script> </body> </html> 3 Observe what appears in the browser 4 Record your observations (Question No. 24) × | 🕜 KarW010/pweb_jobs| × | 👲 Download history (2) WhatsApp × 😵 Percabangan switch/c × 🍥 E-Learning → X ① localhost/pweb_jobsheet3/switchcase_javascript.html localhost says Kamu beruntung! Silahkan pilih hadiahmu dengan memasukan angka (2) WhatsApp 🔀 Percabangan switch/c 🗙 E-Learning localhost/pweb_jobsheet3/switchcase_javascript.html Selamat kamu mendapatkan Tisu



❖ Nested Branching

Nested Branching refers to a condition where one branching statement (such as **if**, **else**, **switch**, etc.) is placed inside another branching statement. This allows for more complex decision-making processes where multiple conditions need to be evaluated at different levels. In nested branching, the outcome of one condition can depend on the result of another, providing more fine-grained control over the program flow.

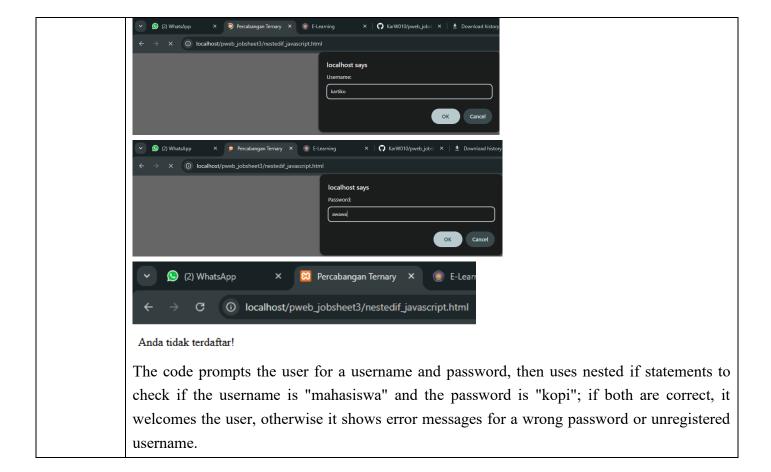
For example, you can nest an **if** statement inside another **if** statement to first check one condition and then, based on that, check a second condition within the first block.

Step	Description
1	Create a new File named nestedif_javascript.html and save it in the project folder
2	Type the program below

```
<!DOCTYPE html>
          <html>
          <head>
               <title>Percabangan Ternary</title>
          </head>
          <body>
               <script>
                    var username = prompt("Username:");
                    var password = prompt("Password:");
                     if(username == "mahasiswa") {
                          if(password == "kopi") {
                               document.write("<h2>Selamat datang </h2>");
                          } else {
                               document.write("Password salah, coba lagi!");
                     } else {
                          document.write("Anda tidak terdaftar!");
               </script>
          </body>
          </html>
3
         Observe what appears in the browser
4
         Record your observations
         (Question No. 25)
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          ← → × (i) localhost/pweb_jobsheet3/nestedif_javascript.html
                                           localhost says
                                 × Percabangan Ternary × 🍥 E-Learn
               (2) WhatsApp
                       ① localhost/pweb_jobsheet3/nestedif_javascript.html
          Selamat datang
```



Practical Section 10: Loops

Loops help us execute code repeatedly, as many times as we want. There are five types of loops in JavaScript. Generally, these loops are categorized into two types: counted loops and uncounted loops.

The difference is as follows:

- ✓ Counted Loops are loops where the number of iterations is known and definite.
- ✓ Uncounted Loops, on the other hand, are loops where the number of iterations is **not predetermined**.

The loops that fall under **Counted Loops** are:

- 1. For Loop
- 2. Foreach Loop
- 3. Repeat Loop

The loops that fall under **Uncounted Loops** are:

1. While Loop

2. Do/While Loop

***** For loops in Javascript

A for loop is a loop that is included in a *couted loop*, because it is clear how many times it will repeat. It looks like this:

```
for(let i = 0; i < 10; i++) {
    document.write("<p>Perulangan ke-" + i + "")
}
```

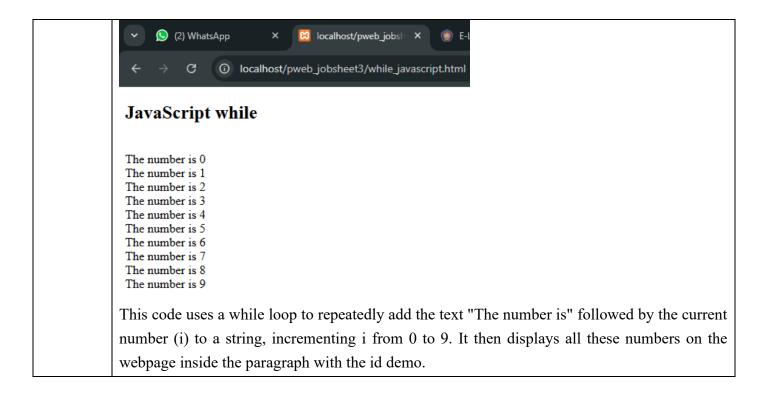
Step	Description
1	Create a new File named for_javascript.html and save it in the project folder
2	<pre>Type the program below <!DOCTYPE html> <html> <html> <body> <h2>JavaScript Loops</h2> <pre> <pre> <pre> <script> var text = ""; var i; for (i = 0; i < 5; i++) { text += "The number is " + i + " } document.getElementById("demo").innerHTML = text; </script> </pre></pre></pre></body> </html> </html></pre>
3	Observe what appears in the browser
4	Record your observations (Question No. 26) (Question No. 26) (Question No. 26) (Question No. 26) (Question No. 26) (Question No. 26) (Question No. 26)
	JavaScript Loops The number is 0 The number is 1 The number is 2 The number is 3 The number is 4

The code uses a for loop to repeat a block of code 5 times, adding the text "The number is" followed by the current number (i) to a string. It then displays all the numbers from 0 to 4 on the webpage inside the paragraph with the id demo.

***** While loops in Javascript

The while loop is categorized as an uncounted loop. However, the while loop can also function as a counted loop by including a counter within it.

Step	Description
1	Create a new File named while_javascript.html and save it in the project folder
2	Type the program below
	<pre><!DOCTYPE html> <html> <body> <h2>JavaScript while</h2> <pre> <pre>id="demo"> <script> var text = ""; var i = 0; while (i < 10) { text += "</th></tr><tr><th></th><th></body> </html></th></tr><tr><th>3</th><th>Observe what appears in the browser</th></tr><tr><th>4</th><th>Record your observations</th></tr><tr><th></th><th>(Question No. 27)</th></tr></tbody></table></script></pre></pre></body></html></pre>



❖ Do/While Loops in Javascript

The **do/while loop** is a variation of the while loop in JavaScript. The main difference between them is that the do/while loop will always execute the code inside the loop **at least once**, regardless of whether the condition is true or false. This is because the condition is evaluated **after** the code block is executed, not before, as in the standard while loop.:

```
do {
    // blok kode yang akan diulang
} while (<kondisi>);
```

Key Characteristics:

- The code inside the do block runs first, and then the condition is checked.
- If the condition is true, the loop repeats; if false, the loop stops.
- This type of loop ensures that the code inside the loop executes at least once, even if the condition is false from the beginning.

Step	Description
1	Create a new File named dowhile_javascript.html and save it in the project folder
2	Type the program below

```
<!DOCTYPE html>
          <html>
          <body>
          <h2>JavaScript do ... while</h2>
          <script>
          var text = ""
          var i = 0;
          do {
            text += "<br>The number is " + i;
            i++;
          while (i < 10);
          document.getElementById("demo").innerHTML = text;
          </script>
          </body>
          </html>
3
         Observe what appears in the browser
4
          Record your observations
          (Question No. 28)
               (2) WhatsApp

    localhost/pweb_jobsh 
    ×

                         ① localhost/pweb_jobsheet3/dowhile_javascript.html
          JavaScript do ... while
           The number is 0
           The number is 1
           The number is 2
           The number is 3
           The number is 4
           The number is 5
          The number is 6
          The number is 7
          The number is 8
          The number is 9
          The code uses a do...while loop to add "The number is" followed by the current number (i)
          to a string, starting from 0 up to 9. The difference is that the loop runs the code at least once
         before checking the condition, and then it displays the numbers on the webpage inside the
         paragraph with the id demo.
```

Reference:

- 1) Jason Beaird, The principles of Beautiful Web Design
- 2) Rian Ariona, Learn HTML and CSS (Fundamental Tutorial in Learning HTML and CSS)
- 3) Adi Hadisaputra, HTML and CSS Fundamentals from the Roots to the Leaves of John Duckett, HTML and CSS design and build websites