



WELCOME TO 10 DAYS WEB DEVELOPMENT WORKSHOP

COVERS HTML, CSS AND BASIC JS

#DAY7

 <https://tiny.cc/itsnpdiscord>

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DAY 7 AGENDA

JAVASCRIPT

Introduction of JavaScript, inserting JavaScript, comments, variable (var, let, const), Operators (Arithmetic, Assignment), Data types, input/output (prompt, confirm, console.log, alert), conditionals (if, if else, if elseif, switch), loops (for, while, do while, for of, for in), break, continue, functions.

Introduction

- JavaScript is a lightweight interpreted programming language
- It is also known as scripting language
- It makes webpage interactive and dynamic



inserting js

<head> </head>

you can insert js script
inside **<head>** tag
using **<script>** tag

syntax

```
<script>  
  //js code here  
</script>
```

<body> </body>

you can insert js script
inside **<body>** tag
using **<script>** tag

syntax

```
<script>  
  //js code here  
</script>
```

external file

you can create a file
with **.js** extension and
insert it in HTML either
in **<head>** or **<body>**

syntax

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

comments

JavaScript comments are ignored by browser. comments helps us explain the code and so on

two types of comments

Single line comment
Multi line comment

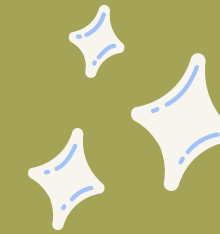


SINGLE LINE COMMENT

single line comments are written on a single line

SYNTAX

```
// comment here
```

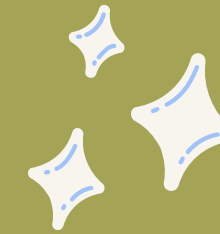


MULTILINE COMMENT

multi line comments are written in
multiple lines

SYNTAX

```
/*  
  comment here  
*/
```



variables

variables are the named containers to store data

3 ways to create variables

- **var**: creates global or local variable scoped to a function
- **let**: creates variable scoped to a block
- **const**: to declare constants

demonstration

```
var a = 10;  
let b = 15;  
const PI = 3.14;
```





DATA TYPES

data types in javascript

- **primitive type** (immutable values)
- **reference type** (mutable)

primitive type

- String
- Number
- Boolean
- Null
- Undefined

reference type

- Array
- Function
- Object





operators

- Arithmetic Operators (+, -, *, /, %, ++, --)
- Comparison Operators (==, ===, !=, !==, >, >=, <, <=)
- Logical Operators (&&, ||, !)
- Assignment Operators (=, +=, -=, *=, /=, %=)
- Ternary Operator (?:)

INPUT/OUTPUT FUNCTIONS



prompt()

accepts user input



console.log()

prints to the console



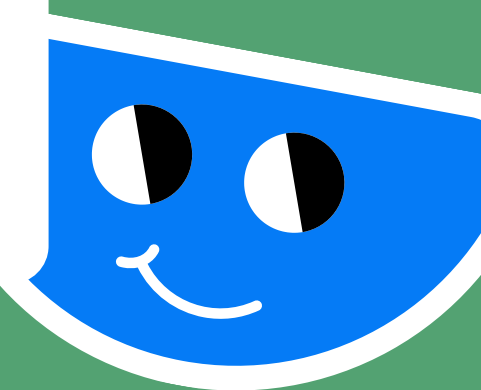
confirm()

asks for confirmation



alert()

alerts a message



CONDITIONALS

CONDITIONAL STATEMENTS ALLOW US TO PERFORM DIFFERENT TASKS IN DIFFERENT CONDITIONS

CONDITIONAL STATEMENTS

- if
- if else
- if else if
- switch





LOOP

LOOP MEANS ITERATING THE PIECE OF CODE

TYPES OF LOOP

- for
- while
- do while
- for of
- for in

break

terminates the current loop



continue

The continue statement terminates execution of the statements in the current iteration of the current or labeled loop, and continues execution of the loop with the next iteration.



FUNCTIONS

functions are created to perform specific task when it is invoked

SYNTAX

```
function hello () {  
  alert("hello");  
}  
  
hello();
```



Assignment

write a program to take percentage input from the user and print the grade on the console using a function.

THANK YOU!

DAY 7 WAS AWESOME HAVING YOU!
HOPE WE GAVE THE BEST

DAY 7 OVER

