Lecture-01: Variables in JavaScript (var, let, const)

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Introduction to Variables:

- · Variables are containers that store values in programming.
- In JavaScript, these containers are referred to as variables.

Types of Variables:

- 1. var
- 2. let
- 3. const

Important Note: Avoid using numbers as variable names.

Variable Declaration and Initialization:

- Declare: Defining a variable without assigning a value.
- Initialization: Assigning a value to a variable.

Examples:

- 1. var studentname; (Declared)
- 2. var studentname = "Sana Kiran"; (Initialized)
- 3. var name = "Khuzaima Ahmed"; (Declared & Initialized)

Data Types in JavaScript:

• Data types are used to handle data in JavaScript.

Data Types	Description	Example
String	represents textual data	'hello', "hello world!" etc
Number	an integer or a floating-point number	3, 3.234, 3e-2 etc .
BigInt	an integer with arbitrary precision	900719925124740999n In etc.
Boolean	Any of two values: true or false	true and false
undefined	a data type whose variable is not initialized	let a;
null	denotes a null value	let a = null;
Symbol	data type whose instances are unique and immutable	<pre>let value = Symbol('hello');</pre>
Object	key-value pairs of collection of data	<pre>let student = { };</pre>

For more details on data types: programiz.com/javascript/data-types/

Printing Variables in JavaScript:

Note: To open the console, right-click on the structure of your HTML file, and select "Inspect."

Operators:

For more details on JavaScript operators, refer to the following documentation:

https://tutorialsteacher.com/javascript/javascript-operators/