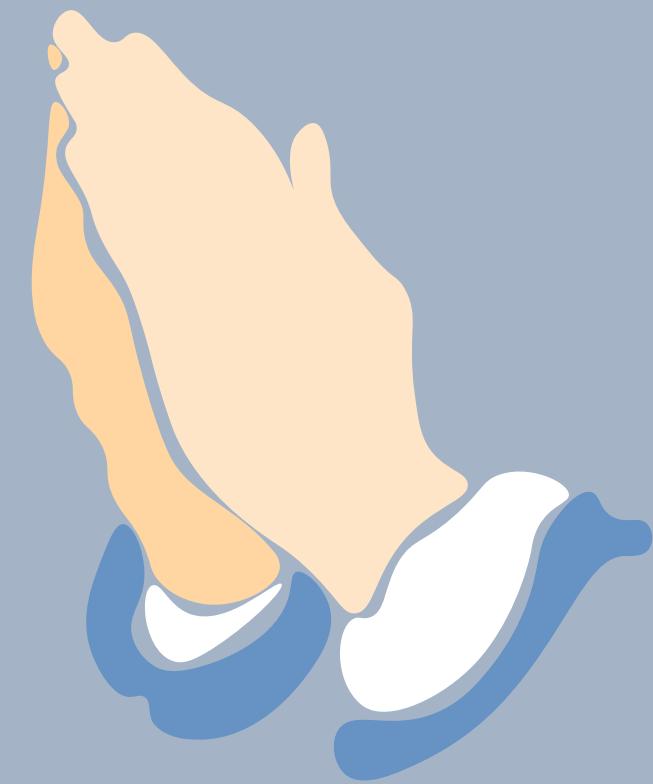
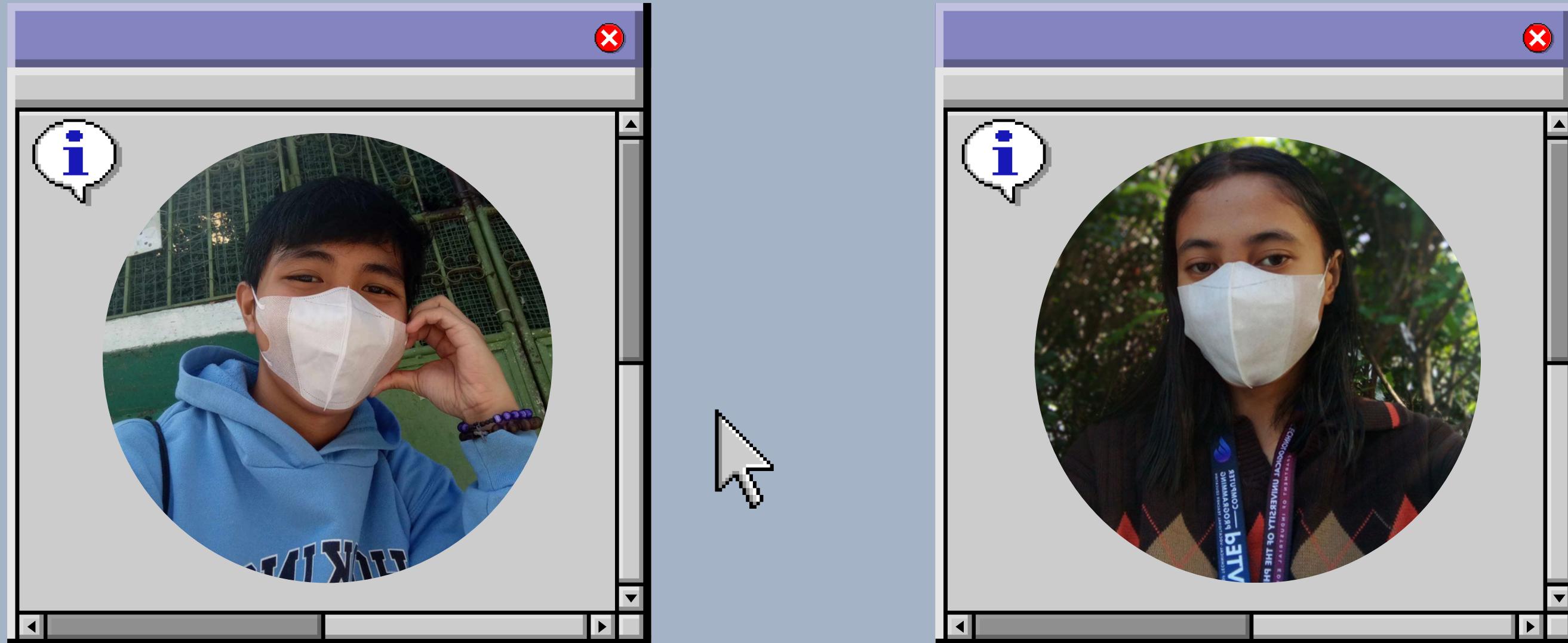


PRAYER

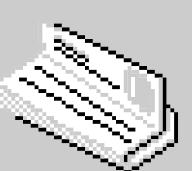
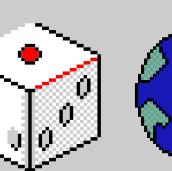
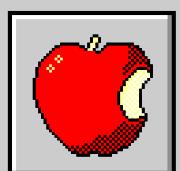


GROUP 3 REPORTERS

{.js}
JavaScript



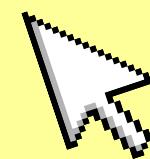
DUMAOP, SEAN PAUL E.
BELEN, CATHERINE N.
BTTE-CP-2A



{.js}
JavaScript



PRE-TEST

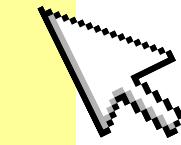


PRE-TEST

MULTIPLE CHOICE

Direction: Read each question carefully and choose the letter of the correct answers. CAPITAL LETTER.

PRE-TEST



3. What are the keywords used as syntax in JavaScript?

- A. var, let, const
- B. char, bet, let
- C. int, bool, str
- D. var, char, str

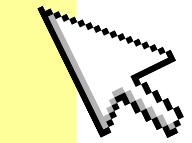
4. Inside which HTML element do we put the JavaScript?

- A. <script>
- B. <javascript>
- C. <js>
- D. <scripting>

5. JavaScript data can be displayed with the following ways, except:

- A. .innerHTML
- B. document.write()
- C. console.log()
- D. HTML.write()

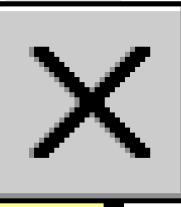
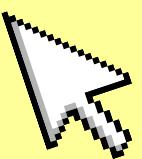
PRE-TEST



KEY TO CORRECTION:

1. D
2. C
3. A
4. A
5. D

Ice Breaker



Ice Breaker



PILIIN MO ANG TAMANG BASO

DIRECTIONS: READ THE STATEMENTS CAREFULLY.
CHOOSE THE CORRECT CUP IN ORDER FOR THE CODE TO
EXECUTE. CLUES ARE GIVEN ABOVE THE STATEMENTS.
STUDENTS WHO ARE FIRST TO STAND UP AND GET A
CORRECT ANSWER WILL RECEIVE A PRIZE.

Ice Breaker



I'm thirsty, would you help choose what cup I should choose?

_____ is an organic compound with
the chemical formula H₂O



water



chicken



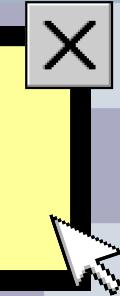
salad

READY?

Ice Breaker



Ice Breaker



I want some drink that contains Calcium. What cup should I drink?

```
document.write(5+6);  
</script>
```



```
<script>
```

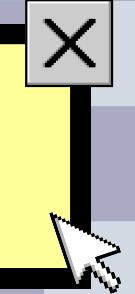


```
<JavaScript>
```



```
<html>
```

ANSWER



I want some creamy drink. What cup should I drink?

```
<script>  
document.write(5+6);  
</script>
```



```
<script>
```

Ice Breaker

X

I want to eat tomato sauce pasta. What cup should I get?

x = 7;
y = 5;
z = _____;

(the value should be equals to 12)



$x + y$



$x = y$



$x - y$

ANSWER

X

I want to eat tomato sauce pasta. What cup should I get?

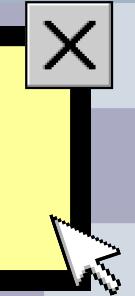
```
x = 7;  
y = 5;  
z = x + y;
```

the value should be equals to 12



x + y

Ice Breaker



I want dessert that contains silken tofu. What cup should I get?

The text should change when I click the button:

```
<button _____ = "this.innerHTML = Date()"> The time is? </button>
```



onblur

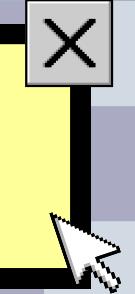


onclick



onsite

ANSWER



I want dessert that contains silken tofu. What cup should I get?

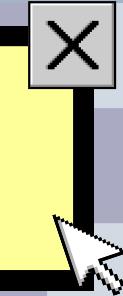
The text should change when I click the button:

```
<button onclick="this.innerHTML = Date()"> The time is? </button>
```



onclick

Ice Breaker



I want some sinabawang manok. What cup should I get?

This is a comment. Change the heading
document.getElementById ("myH").innerHTML = "My First Page";



#

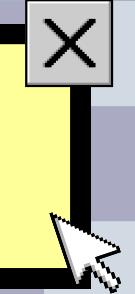


--



//

ANSWER



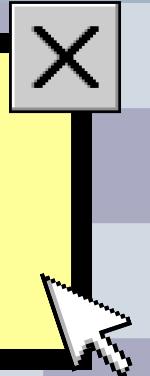
I want some sinabawang manok. What cup should I get?

// This is a comment. Change the heading
document.getElementById ("myH").innerHTML = "My First Page";



//

Ice Breaker

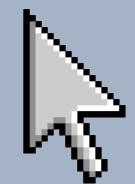


GREAT JOB !!!!

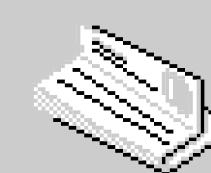
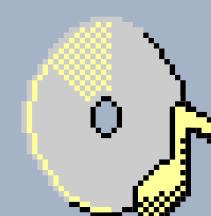
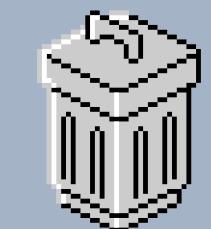
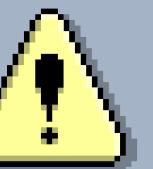
**WHAT DO YOU
THINK IS THE
TOPIC?**



JAVASCRIPT PROPERTIES



{.js}
JavaScript



{.js}
JavaScript

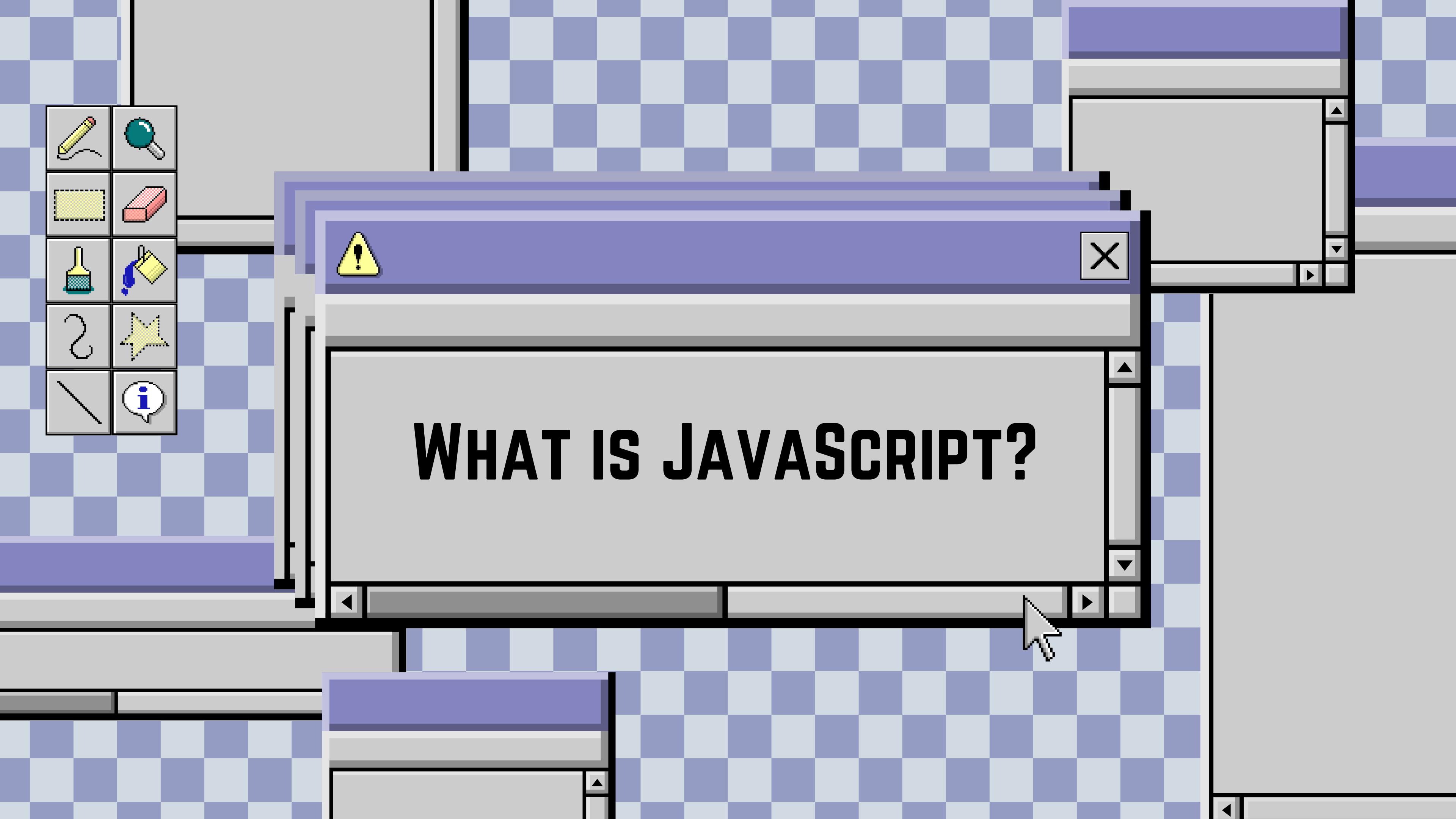
1:00PM

Learning Objectives:

At the end of the lesson, the students are expected to:

1. identify the properties of JavaScript;
2. value the importance of JavaScript Properties;
3. practice use of the JavaScript properties.





WHAT IS JAVASCRIPT?

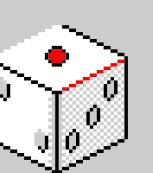
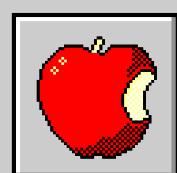


INTRODUCTION

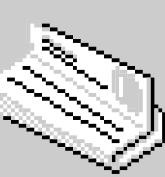
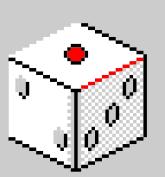
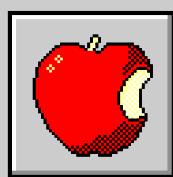


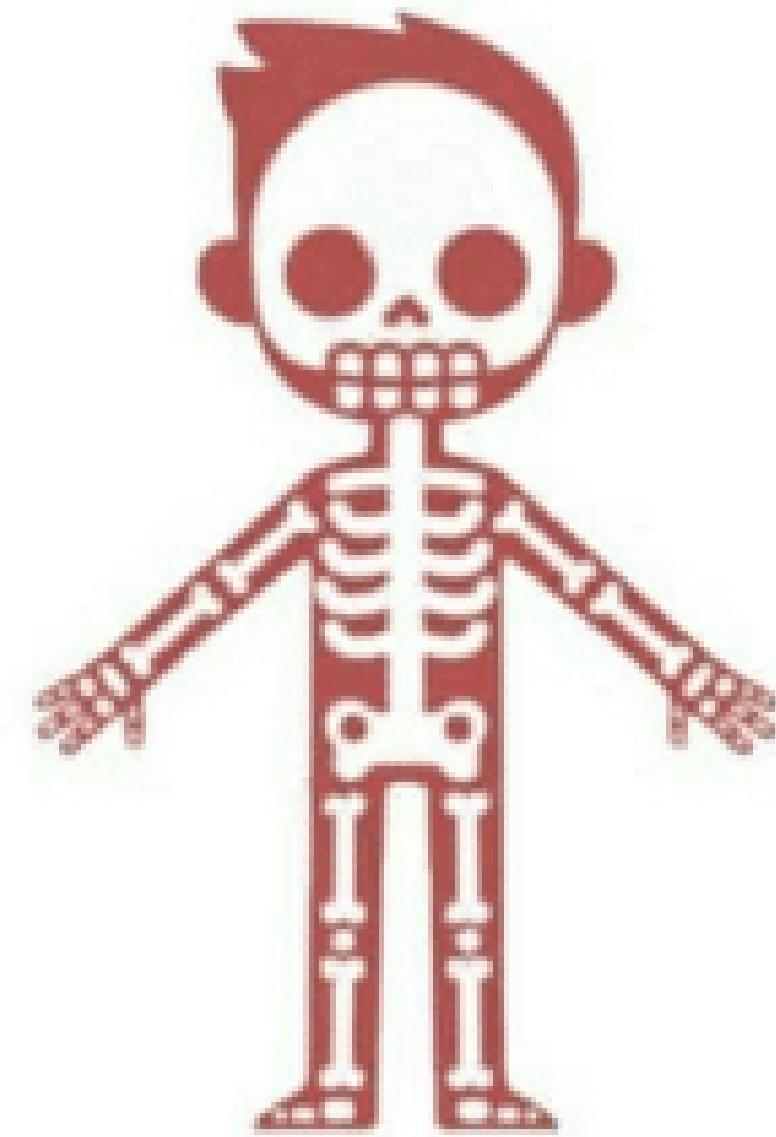
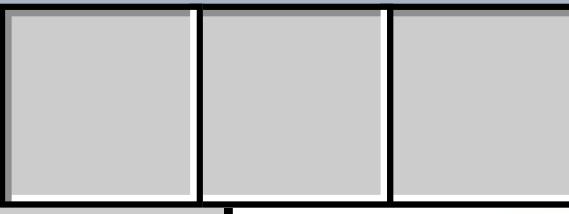
JAVASCRIPT IS A TEXT-BASED PROGRAMMING LANGUAGE USED ON BOTH CLIENT-SIDE AND SERVER-SIDE THAT ALLOWS WEBSITES TO MAKE IT MORE INTERACTABLE.

**NOTE !!
JAVASCRIPT
IS A
CASE-
SENSITIVE**

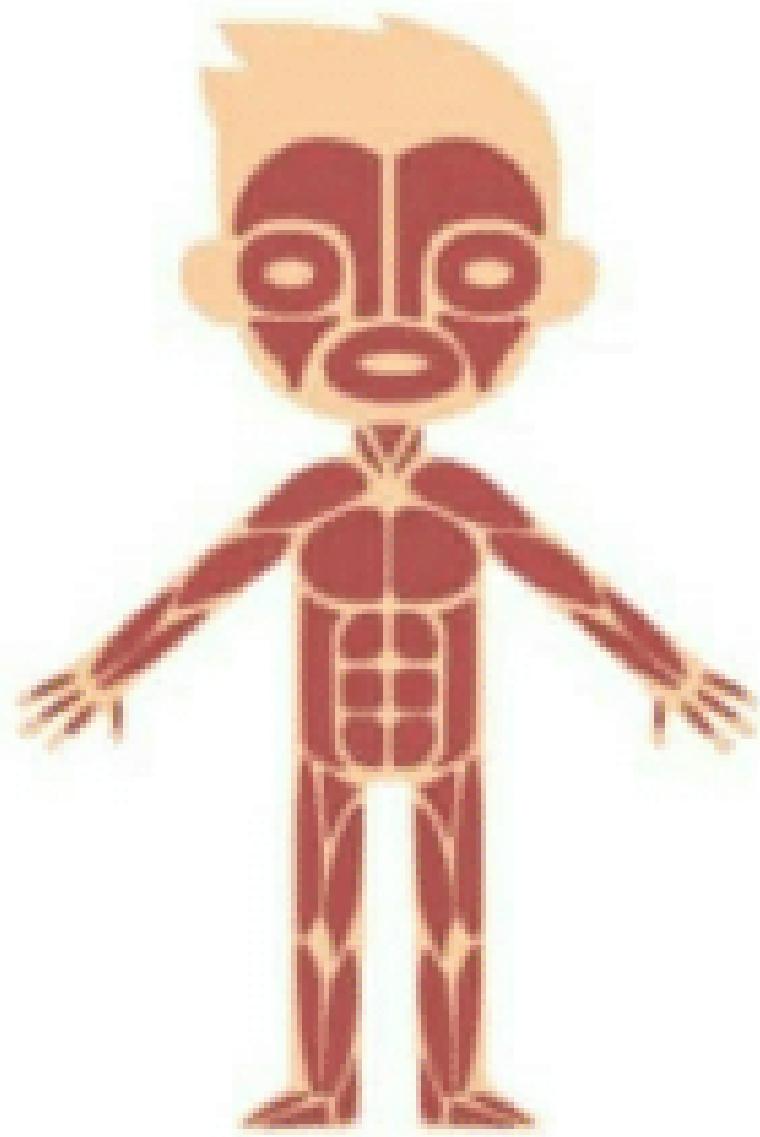


Popular Companies that use JavaScript





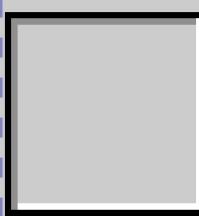
HTML

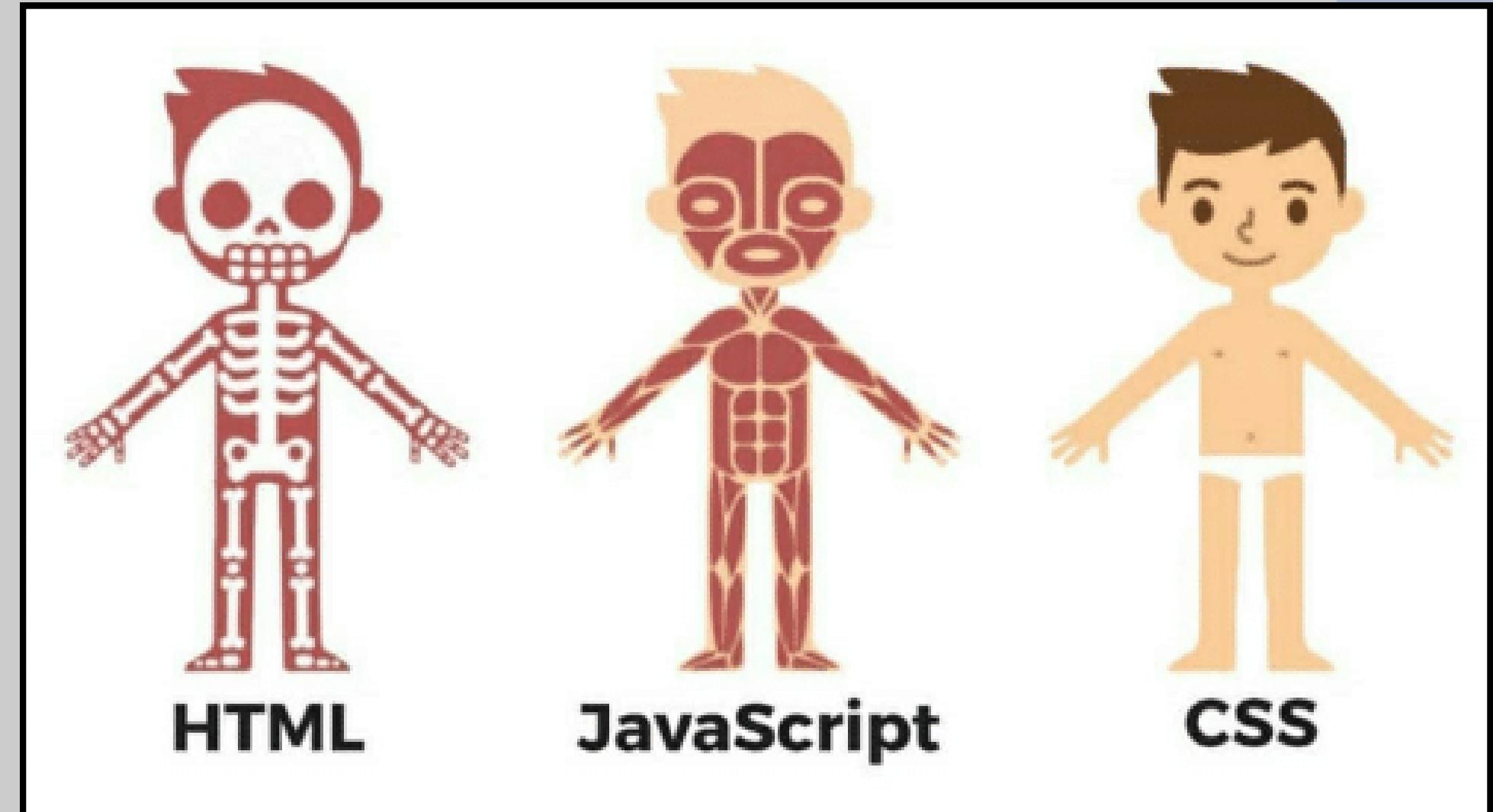
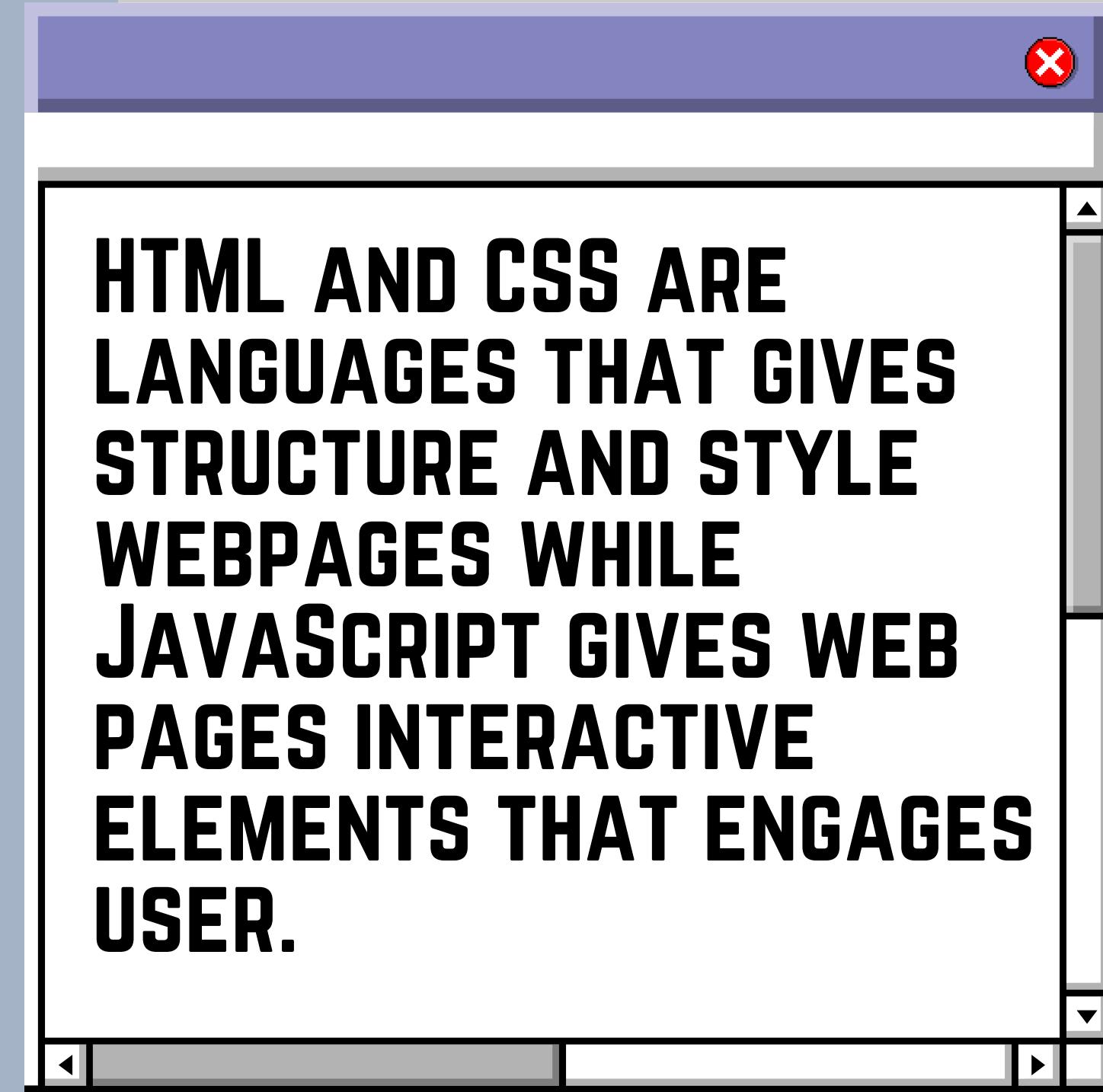
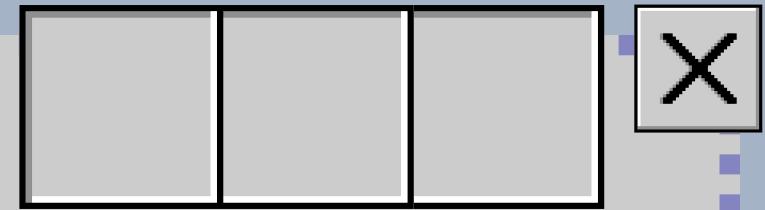


JavaScript



CSS





THE <SCRIPT> TAG



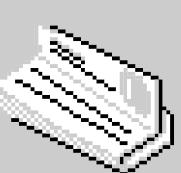
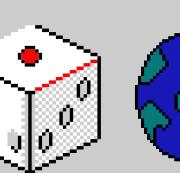
<SCRIPT> ELEMENT

IN HTML, JAVASCRIPT CODE IS INSERTED BETWEEN

<SCRIPT> AND </SCRIPT> TAGS.

Example

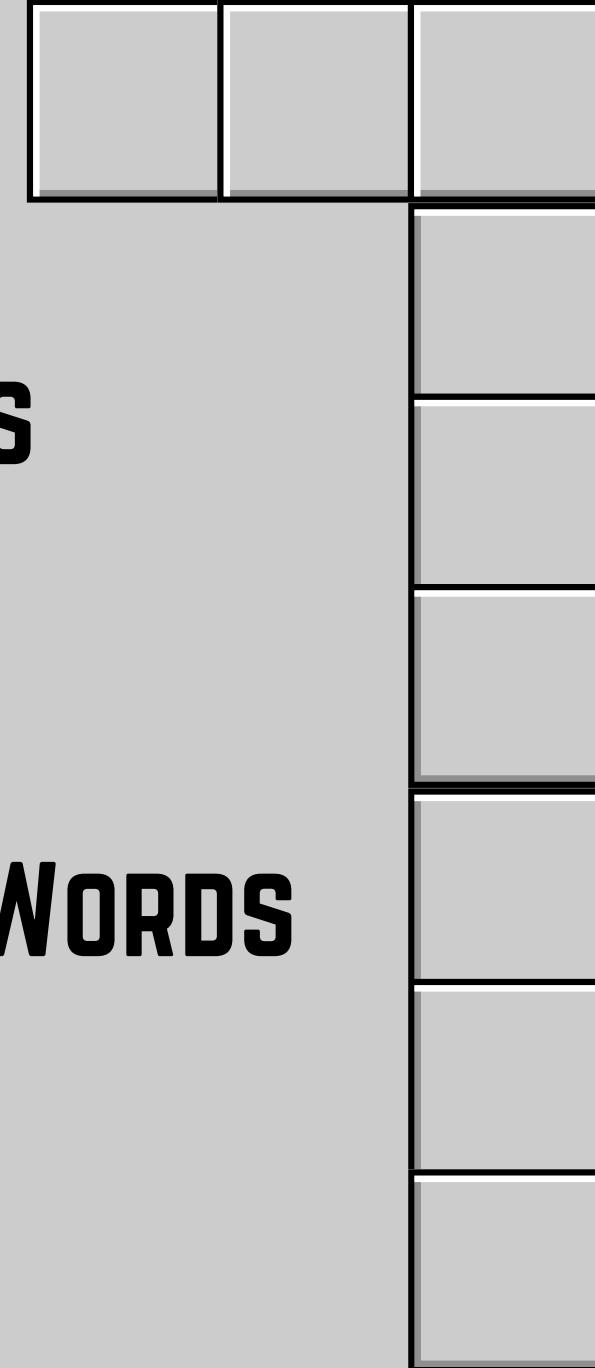
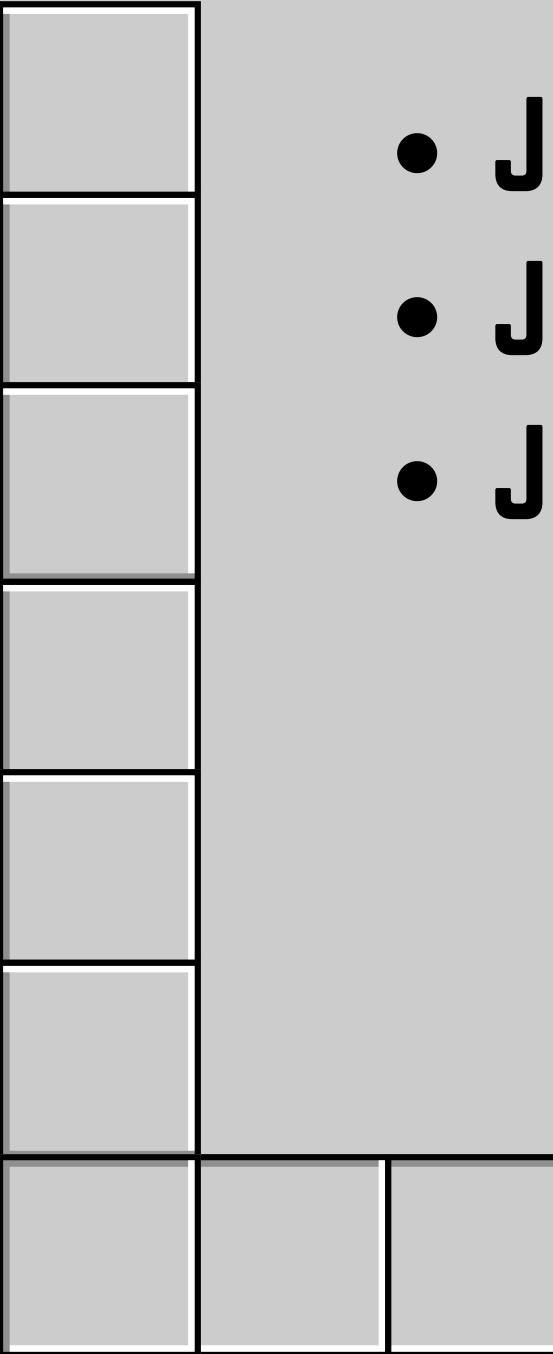
```
<script>  
document.getElementById("demo").innerHTML = "My First JavaScript";  
</script>
```



JAVASCRIPT PROPERTIES



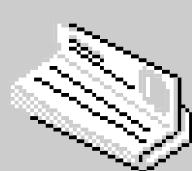
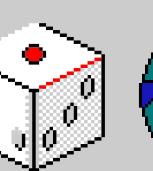
- JS OUTPUT
- JS STATEMENTS
- JS SYNTAX
 - A. VAR
 - B. LET
 - C. CONST
- JS DATA TYPES
- JS EVENTS
- JS COMMENTS
- JS RESERVED WORDS



JAVASCRIPT OUTPUT

JAVASCRIPT CAN "DISPLAY" DATA IN DIFFERENT WAYS:

- WRITING INTO AN HTML ELEMENT, USING **INNERHTML**.
- WRITING INTO THE HTML OUTPUT USING **DOCUMENT.WRITE()**.
- WRITING INTO AN ALERT BOX, USING **WINDOW.ALERT()**.
- WRITING INTO THE BROWSER CONSOLE, USING **CONSOLE.LOG()**.



JAVASCRIPT OUTPUT

```
<script>  
document.getElementById("demo").innerHTML = 5 + 6;  
</script>
```

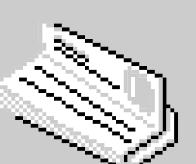
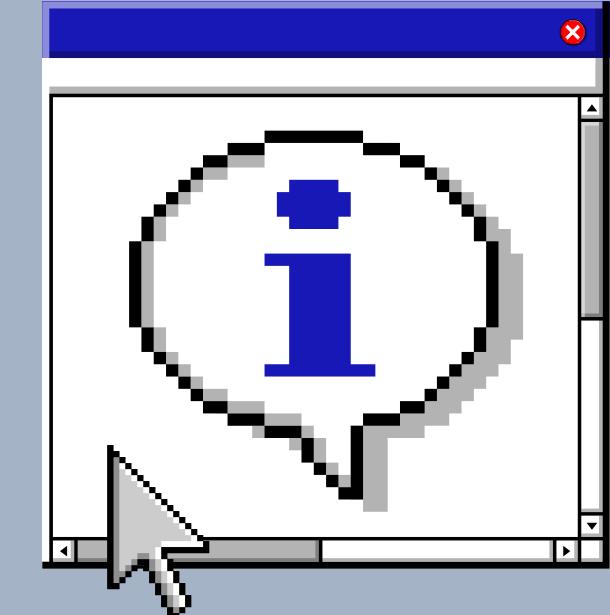
- .INNERHTML

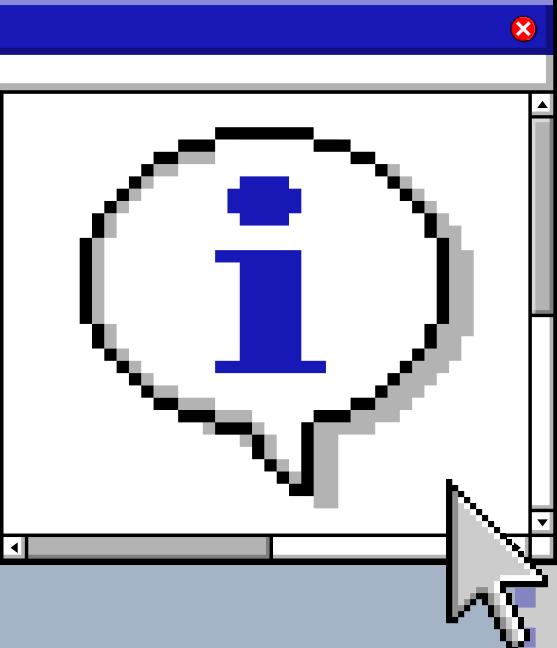
```
<script>  
document.write(5 + 6);  
</script>
```

- DOCUMENT.WRITE()

```
<script>  
window.alert(5 + 6);  
</script>
```

- WINDOW.ALERT()

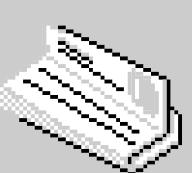
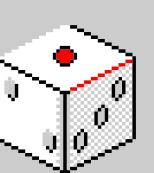




JAVASCRIPT STATEMENTS

JAVASCRIPT STATEMENTS ARE COMPOSED OF:

- **VALUES,**
- **OPERATORS,**
- **EXPRESSIONS,**
- **KEYWORDS, AND**
- **COMMENTS.**



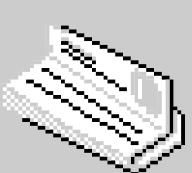


JAVASCRIPT STATEMENTS

Example

```
document.getElementById("demo").innerHTML = "Hello Dolly.;"
```

JAVASCRIPT STATEMENTS TELLS THE BROWSER WHAT TO WRITE INSIDE AN HTML ELEMENT.

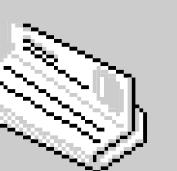
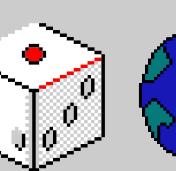
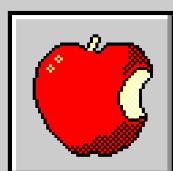
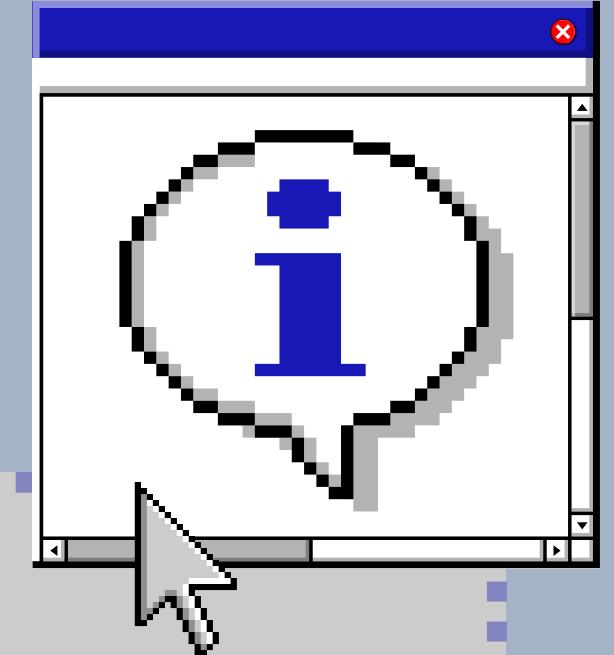


JAVASCRIPT SYNTAX

IN A PROGRAMMING LANGUAGE, VARIABLES ARE USED TO STORE DATA VALUES.

JAVASCRIPT SYNTAX USES THE KEYWORDS:

- **VAR**,
- **LET AND**
- **CONST**

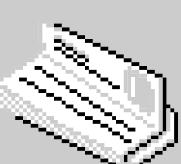
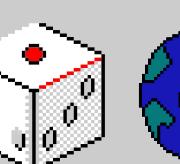
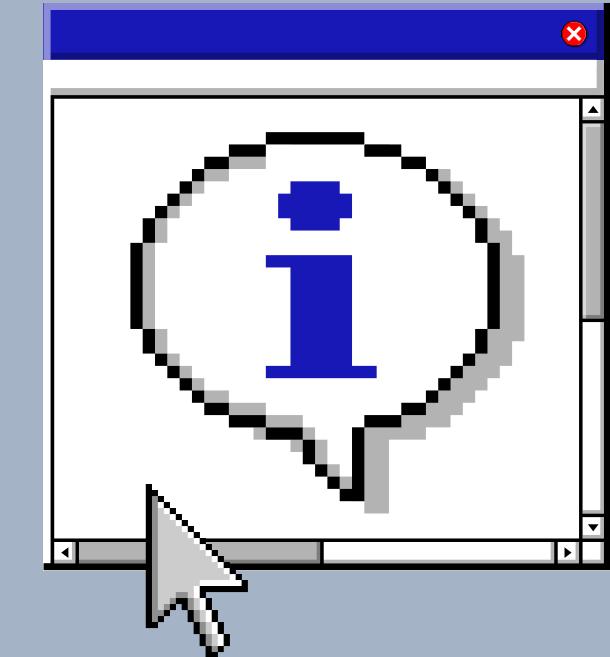


JAVASCRIPT VAR

TO DECLARE VARIABLES, AN EQUAL SIGN `{=}` IS USED TO ASSIGN VALUES TO VARIABLES.

```
// How to create variables:  
  
var x;  
  
let y;
```

```
// How to use variables:  
  
x = 5;  
  
y = 6;  
  
let z = x + y;
```

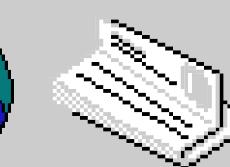
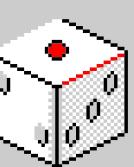
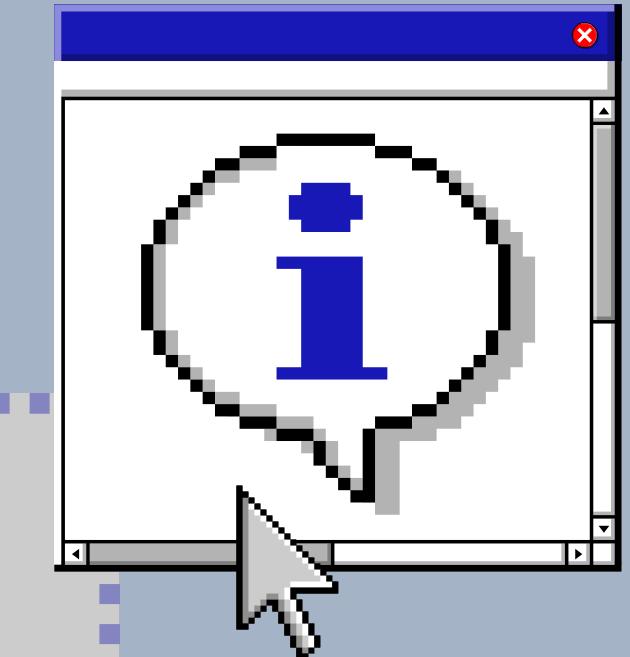


JAVASCRIPT VARIABLES

VARIABLES ARE CONTAINERS FOR STORING DATA

JAVASCRIPT VARIABLES CAN BE DECLARED IN 4 WAYS:

- AUTOMATICALLY
- USING **VAR**
- USING **LET**
- USING **CONST**



JAVASCRIPT VARIABLES

Example

```
x = 5;  
y = 6;  
z = x + y;
```

• AUTOMATICALLY

Example using var

```
var x = 5;  
var y = 6;  
var z = x + y;
```

• VAR



Example using const

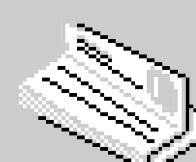
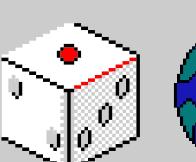
```
const x = 5;  
const y = 6;  
const z = x + y;
```

• CONST

Example using let

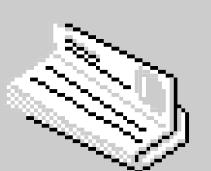
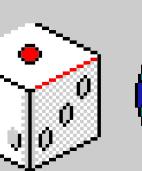
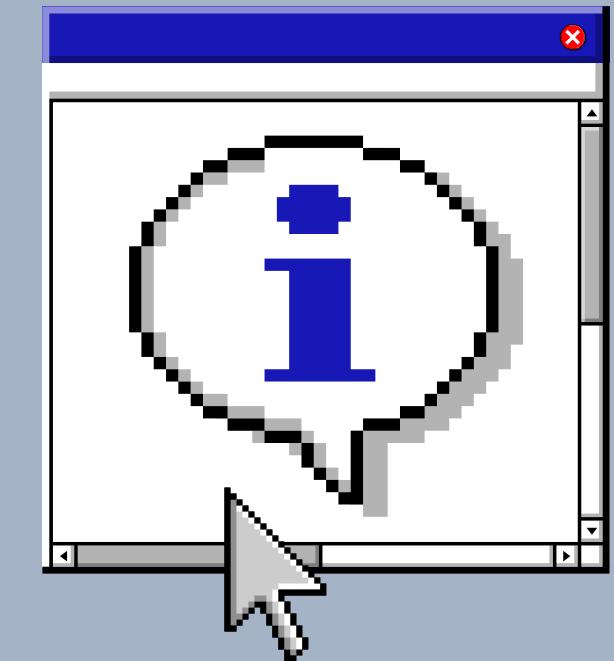
```
let x = 5;  
let y = 6;  
let z = x + y;
```

• LET



JAVASCRIPT LET

- **LET CANNOT BE REDECLARED**
- **LET MUST BE DECLARED BEFORE USE**
- **LET HAVE BLOCK SCOPE**



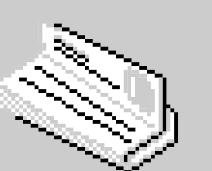
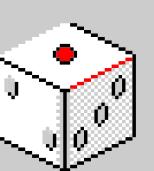
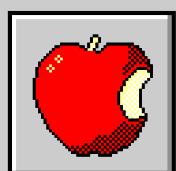
JAVASCRIPT LET

With `let` you can **not** do this:

```
let x = "John Doe";  
  
let x = 0;
```

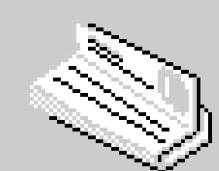
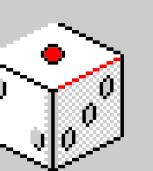
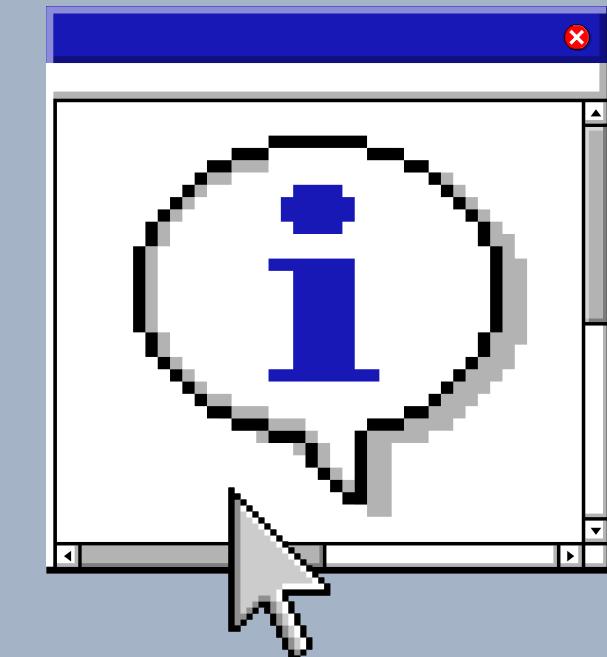
With `var` you can:

```
var x = "John Doe";  
  
var x = 0;
```



JAVASCRIPT CONST

- **CONST CANNOT BE REDECLARED**
- **CONST CANNOT BE REASSIGNED**
- **CONST HAVE BLOCK SCOPE**



JAVASCRIPT CONST

Example

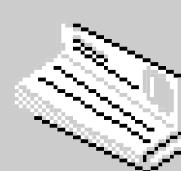
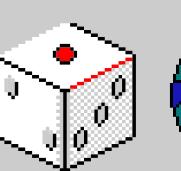
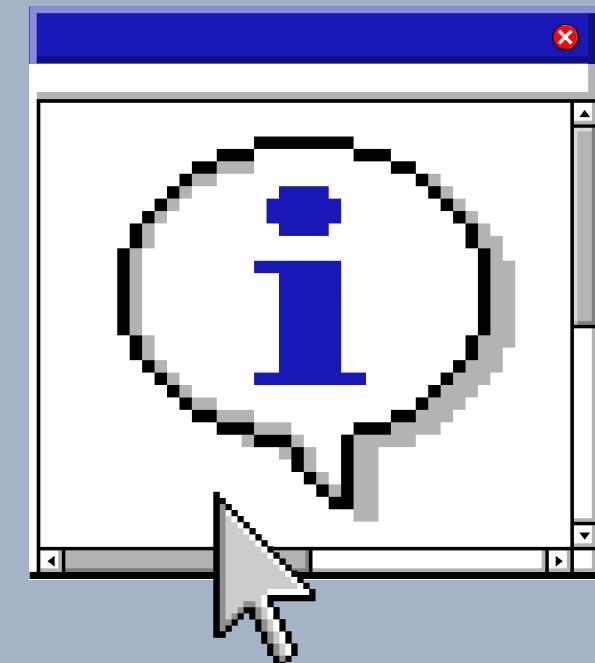
```
const PI = 3.141592653589793;  
PI = 3.14;      // This will give an error  
PI = PI + 10;   // This will also give an error
```

Correct

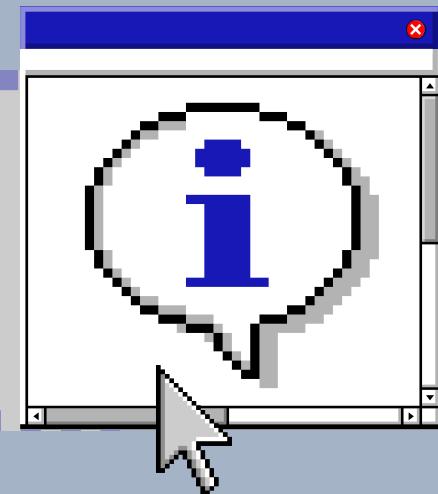
```
const PI = 3.14159265359;
```

Incorrect

```
const PI;  
PI = 3.14159265359;
```

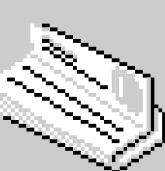
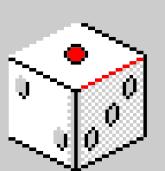


DIFFERENCES



Difference Between var, let and const

	Scope	Redeclare	Reassign	Hoisted	Binds this
var	No	Yes	Yes	Yes	Yes
let	Yes	No	Yes	No	No
const	Yes	No	No	No	No



JAVASCRIPT DATA TYPES

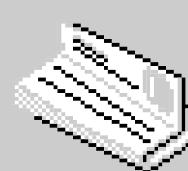
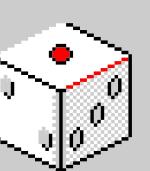
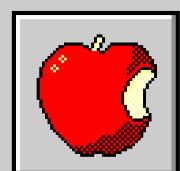
JAVASCRIPT HAS 8 DATATYPES

1. STRING
2. NUMBER
3. BIGINT
4. BOOLEAN
5. UNDEFINED
6. NULL
7. SYMBOL
8. OBJECT

THE OBJECT DATA TYPE CAN

CONTAIN:

1. AN OBJECT
2. AN ARRAY
3. A DATE



JAVASCRIPT DATA TYPES

Examples

```
// Numbers:  
let length = 16;  
let weight = 7.5;
```

• NUMBERS

```
// Booleans  
let x = true;  
let y = false;
```

• BOOL

```
// Date object:  
const date = new Date("2022-03-25");
```

• OBJECT DATE

```
// Strings:  
let color = "Yellow";  
let lastName = "Johnson";
```

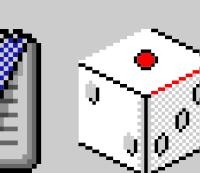
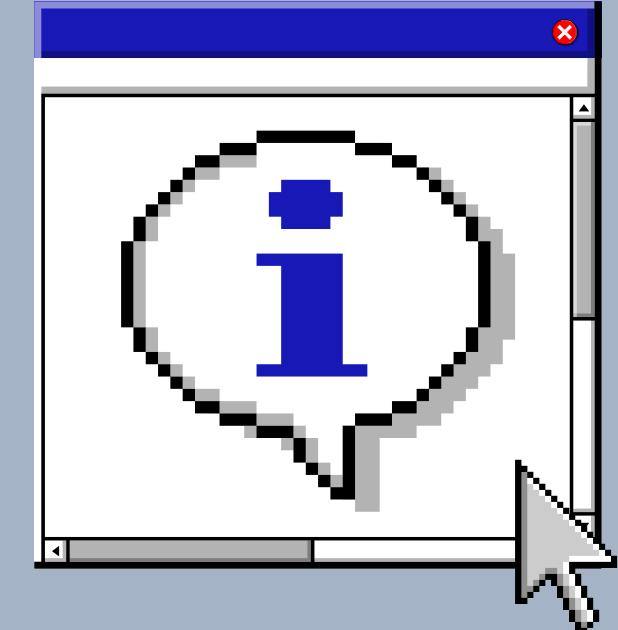
• STRINGS

```
// Object:  
const person = {firstName:"John", lastName:"Doe"};
```

• OBJECT

```
// Array object:  
const cars = ["Saab", "Volvo", "BMW"];
```

• ARRAY OBJECT

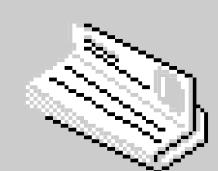


JAVASCRIPT EVENTS

AN HTML EVENT CAN BE SOMETHING THE BROWSER DOES, OR SOMETHING A USER DOES.

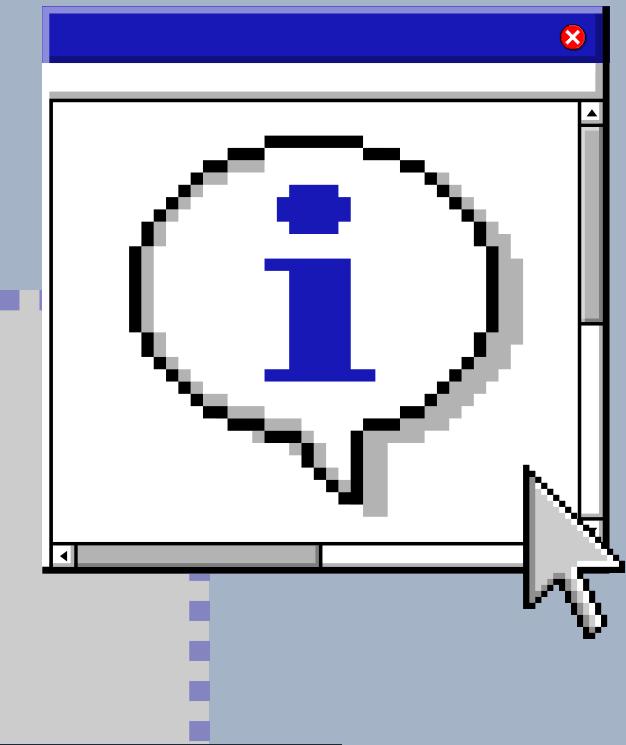
HERE ARE SOME EXAMPLES OF HTML EVENTS:

- AN HTML WEB PAGE HAS FINISHED LOADING
- AN HTML INPUT FIELD WAS CHANGED
- AN HTML BUTTON WAS CLICKED



JAVASCRIPT EVENTS

JAVASCRIPT LETS YOU EXECUTE CODE WHEN EVENTS ARE DETECTED.
HTML ALLOWS EVENT HANDLER ATTRIBUTES, WITH JAVASCRIPT CODE, TO BE
ADDED TO HTML ELEMENTS.

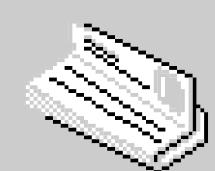
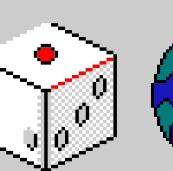


With single quotes:

```
<element event='some JavaScript'>
```

With double quotes:

```
<element event="some JavaScript">
```



JAVASCRIPT EVENTS

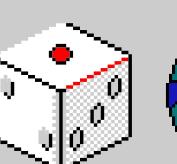
Example

```
<button onclick="document.getElementById('demo').innerHTML = Date()">The time is?</button>
```



Example

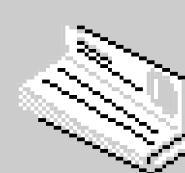
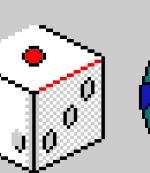
```
<button onclick="this.innerHTML = Date()">The time is?</button>
```



COMMON HTML EVENTS



Event	Description
onchange	An HTML element has been changed
onclick	The user clicks an HTML element
onmouseover	The user moves the mouse over an HTML element
onmouseout	The user moves the mouse away from an HTML element
onkeydown	The user pushes a keyboard key
onload	The browser has finished loading the page



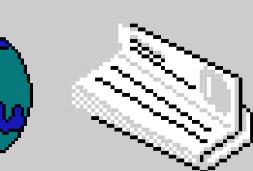
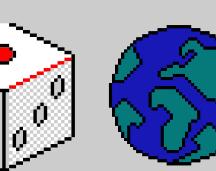
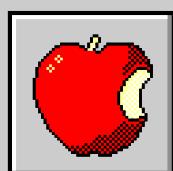
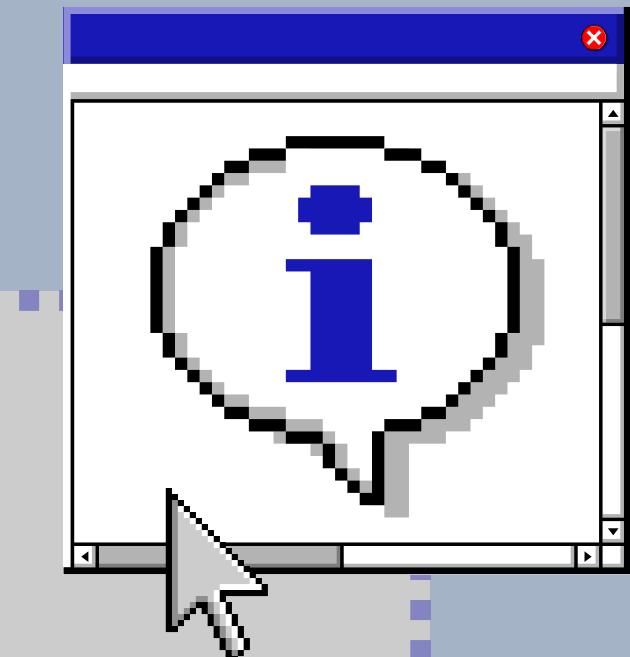
JAVASCRIPT COMMENTS

SINGLE LINE COMMENTS START WITH `//`.

ANY TEXT BETWEEN `//`, THE END OF THE LINE WILL BE IGNORED BY JAVASCRIPT AND WILL NOT BE EXECUTED.

Example

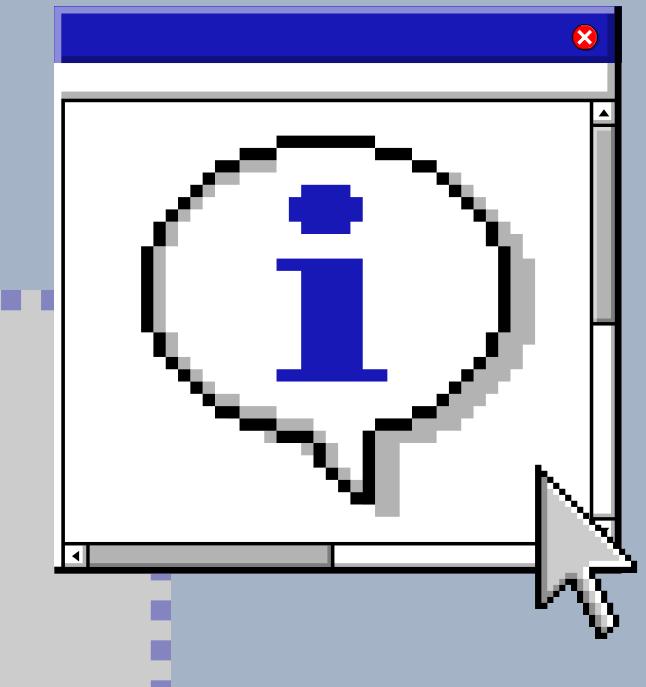
```
// Change heading:  
document.getElementById("myH").innerHTML = "My First Page";  
  
// Change paragraph:  
document.getElementById("myP").innerHTML = "My first paragraph.";
```



JAVASCRIPT COMMENTS

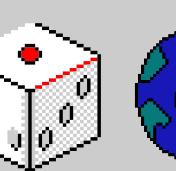
MULTI-LINE COMMENTS START WITH `/*` AND END WITH `*/`.

ANY TEXT BETWEEN `/*` AND `*/` WILL BE IGNORED BY JAVASCRIPT.



Example

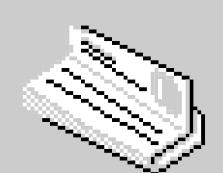
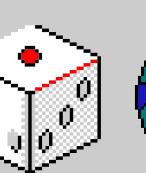
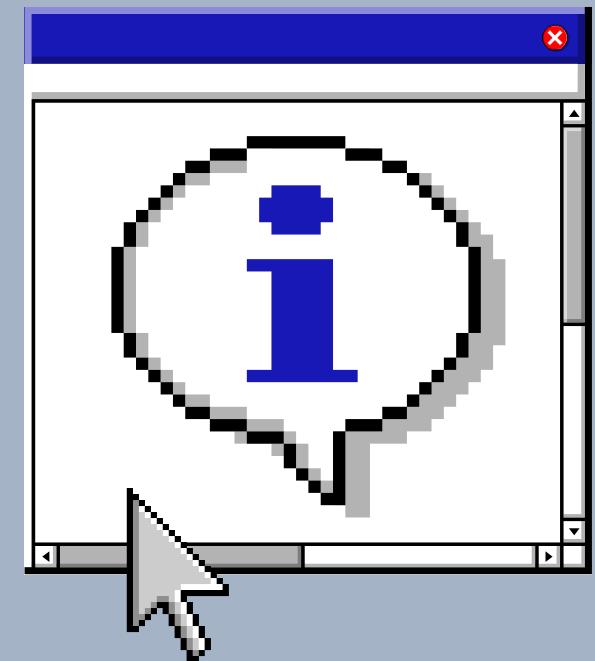
```
/*
The code below will change
the heading with id = "myH"
and the paragraph with id = "myP"
in my web page:
*/
document.getElementById("myH").innerHTML = "My First Page";
document.getElementById("myP").innerHTML = "My first paragraph.;"
```



JAVASCRIPT RESERVED WORDS

abstract	arguments	await*	boolean
break	byte	case	catch
char	class*	const	continue
debugger	default	delete	do
double	else	enum*	eval
export*	extends*	false	final
finally	float	for	function
goto	if	implements	import*

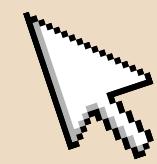
in	instanceof	int	interface
let*	long	native	new
null	package	private	protected
public	return	short	static
super*	switch	synchronized	this
throw	throws	transient	true
try	typeof	var	void
volatile	while	with	yield



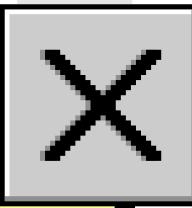
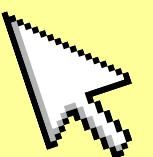
CONCLUSION

JAVASCRIPT PROPERTIES ARE FUNDAMENTAL COMPONENTS OF OBJECTS THAT ENABLES THE STORAGE AND ORGANIZATION OF DATA AND FUNCTIONALITY WITHIN THE LANGUAGE. IT HELPS US TO ACCESS, MODIFY, AND MANIPULATE DATA AND BEHAVIOR WITHIN OUR APPLICATIONS THAT ALSO HELPS US CREATE DYNAMIC AND MORE INTERACTABLE WEB PAGES.

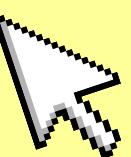
Any questions?



RECAP



POST-TEST



POST-TEST

MULTIPLE CHOICE (1-5)

Direction: Read each question carefully and choose the letter of the correct answers. CAPITAL LETTER and STRICTLY NO ERASURES.

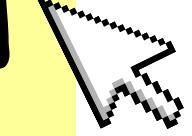
1. JavaScript data can be displayed with the following ways, except:

- A. .innerHTML
- B. document.write()
- C. console.log()
- D. HTML.write()

2. Inside which HTML element do we put the JavaScript?

- A. <script>
- B. <javascript>
- C. <js>
- D. <scripting>

POST-TEST



3. What are the keywords uses as syntax in JavaScript?

 - A. var, let, const
 - B. char, bet, let
 - C. int, bool, str
 - D. var, char, str

4. What is the correct {.js} stands for?

 - A. JavaSoup
 - B. javascript
 - C. JavaScript
 - D. JavaSean

5. What is a text-based programming language used on both client-side and server-side that allows to make websites more interactable?

 - A. HTML
 - B. CSS
 - C. Java
 - D. JavaScript

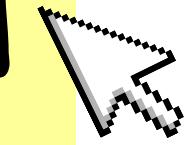
POST-TEST

TRUE or FALSE (6-10)

Direction: Write TRUE if the statement is correct and FALSE if the statement is wrong. CAPITAL LETTER and STRICTLY NO ERASURES.

6. **//*This is a comment*** is a multi-line comment in a JavaScript.
7. Single-line comments start with **//**.
8. This = operator is used to assign a value to a variable.
9. Is JavaScript case-sensitive?
10. **Number** is one of data type of JavaScript

POST-TEST



KEY TO CORRECTION:

- | | |
|------|----------|
| 1. D | 6. FALSE |
| 2. A | 7. TRUE |
| 3. A | 8. TRUE |
| 4. C | 9. TRUE |
| 5. D | 10. TRUE |

Assignment

Directions: Write an essay with a minimum of 50 words answering the question, "What I have learned today?".

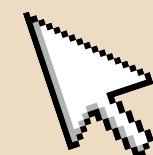
Follow the instructions below and work on Google Docs. Save your document as a pdf and turn in your work in Google Classroom (PROG2 Lecture).

Font – Arial

Font Size – 11

Margins – Normal

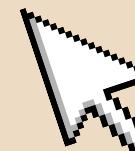
Line and Paragraph Spacing – 1.5



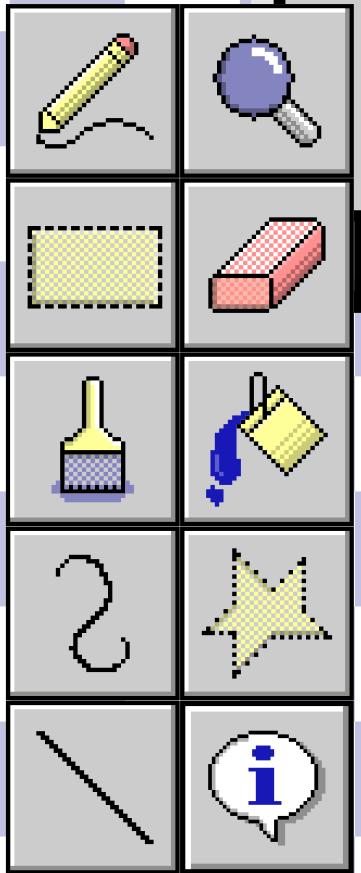
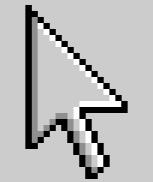
File Name – Surname_Essay (e.g. Dumaop_Essay)

Advance Assignment

Direction: Do some advance research and readings about JavaScript Objects and Functions.



**THANK YOU FOR
LISTENING!!!**



References:

- The Tech Industry *What is JavaScript used for?* <https://www.galvanize.com/blog/what-is-javascript-used-for/#:~:text=JavaScript%20is%20a%20text-based,elements%20that%20engage%20a%20user>.
- TechMagic JavaScript for Mobile Apps: Choose the Perfect Framework <https://www.techmagic.co/blog/why-use-javascript-for-mobile-apps/>
- w3schools JS Where To https://www.w3schools.com/js/js_whereto.asp
- w3schools JS Output https://www.w3schools.com/js/js_output.asp
- w3schools JS Statements https://www.w3schools.com/js/js_statements.asp
- w3schools JS Syntax https://www.w3schools.com/js/js_syntax.asp
- w3schools JS Comments https://www.w3schools.com/js/js_comments.asp
- w3schools JS Variables https://www.w3schools.com/js/js_comments.asp
- w3schools JS Let https://www.w3schools.com/js/js_let.asp
- w3schools JS Const https://www.w3schools.com/js/js_const.asp
- w3schools JS Data Types https://www.w3schools.com/js/js_datatypes.asp
- w3schools JS Events https://www.w3schools.com/js/js_events.asp
- w3schools JS Reserved Words https://www.w3schools.com/js/js_reserved.asp