

## Assignment No 2

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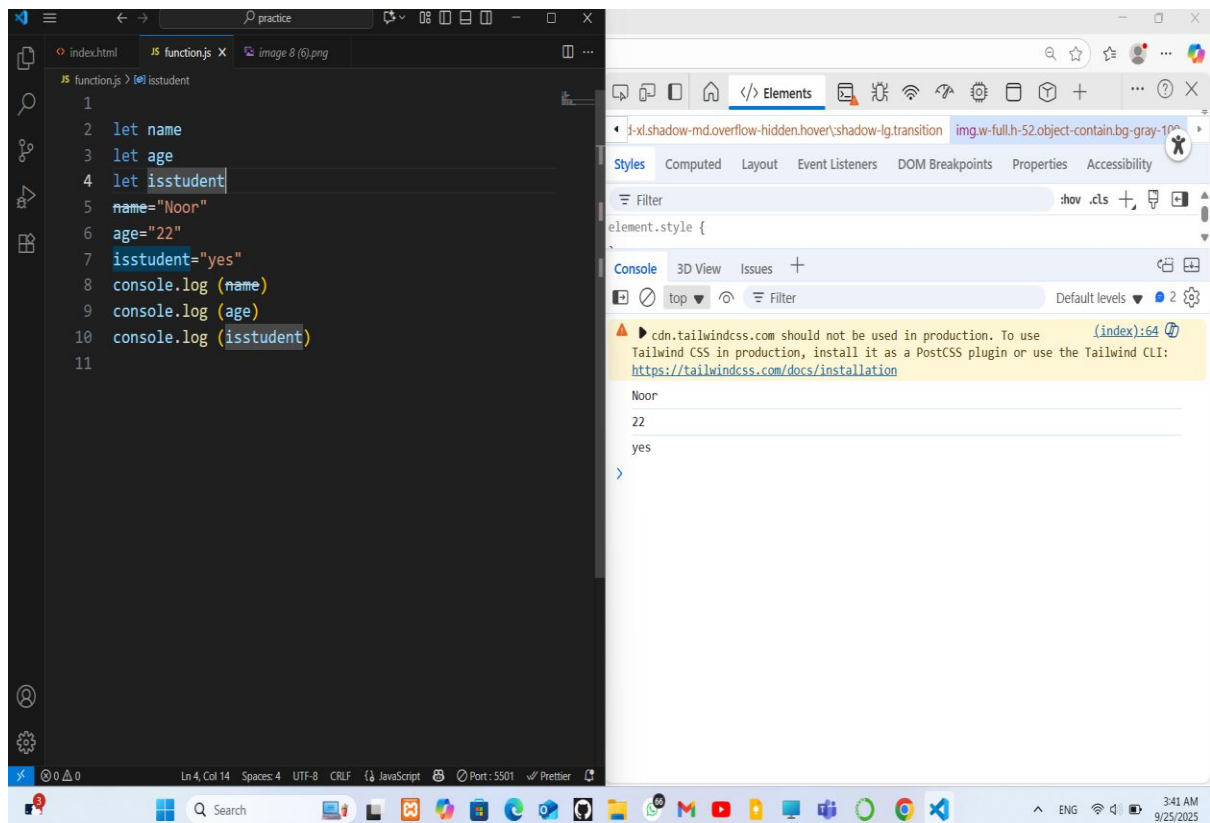
Submitted To: Sir Shehzad

### Task 1:

#### Variable Declaration & Usage

Declare three variables: name, age, and isStudent.

Assign values and print them in the console?



The screenshot shows a code editor on the left and a browser window on the right. The code editor displays a JavaScript file named 'function.js' with the following code:

```
1  
2 let name  
3 let age  
4 let isstudent  
5 name="Noor"  
6 age="22"  
7 isstudent="yes"  
8 console.log (name)  
9 console.log (age)  
10 console.log (isstudent)  
11
```

The browser window on the right shows the 'Console' tab with the following output:

```
Noor  
22  
yes  
>
```

A warning message is also visible in the console: 'cdn.tailwindcss.com should not be used in production. To use Tailwind CSS in production, install it as a PostCSS plugin or use the Tailwind CLI: https://tailwindcss.com/docs/installation'.

## Task 2 and Task 3:

### Type Conversion

Convert "100" (string) to a number and "true" to a boolean.

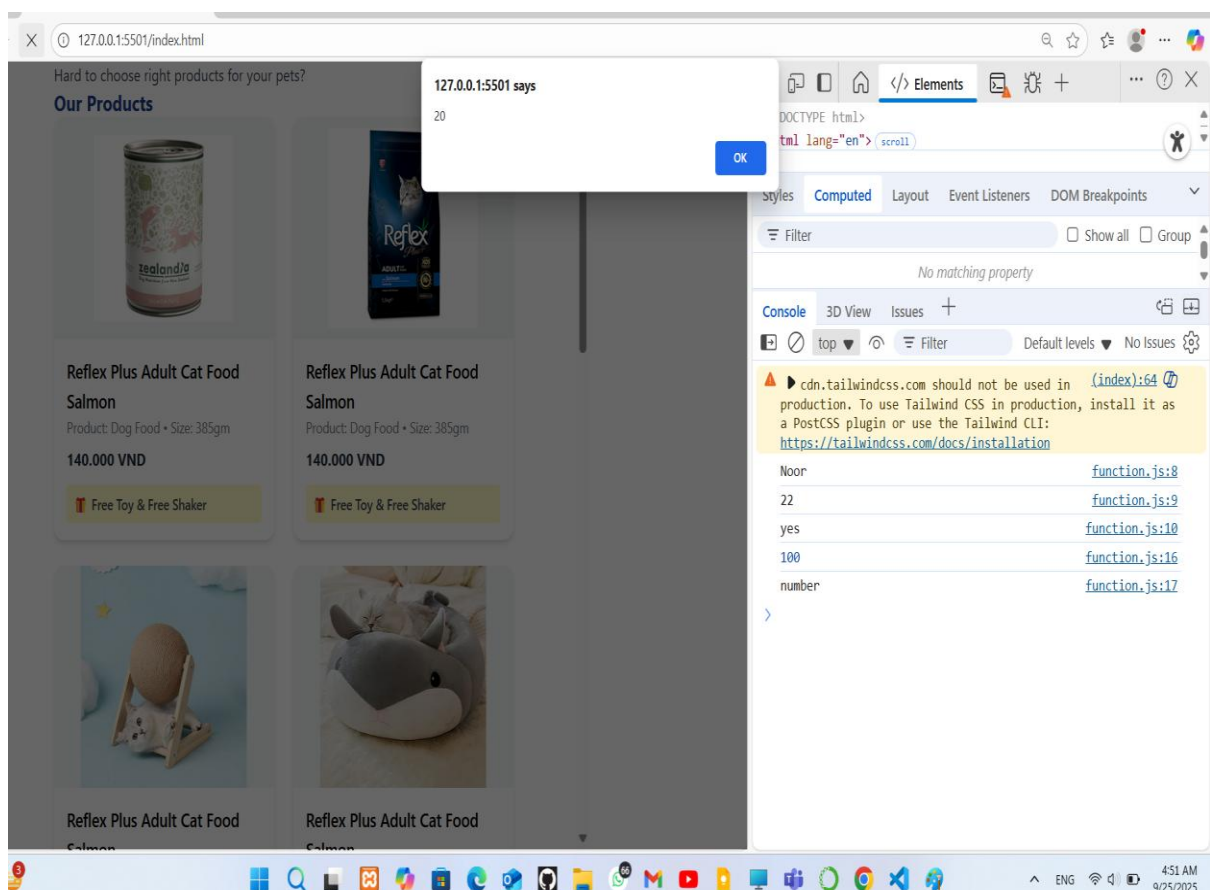
Print the results in the console.

### Arithmetic Operations

Take two numbers as input from the user using prompt().

Perform addition, subtraction, multiplication, and division using function.

Show the results using alert() ?



## Task 4 and Task 5:

### Null vs Undefined

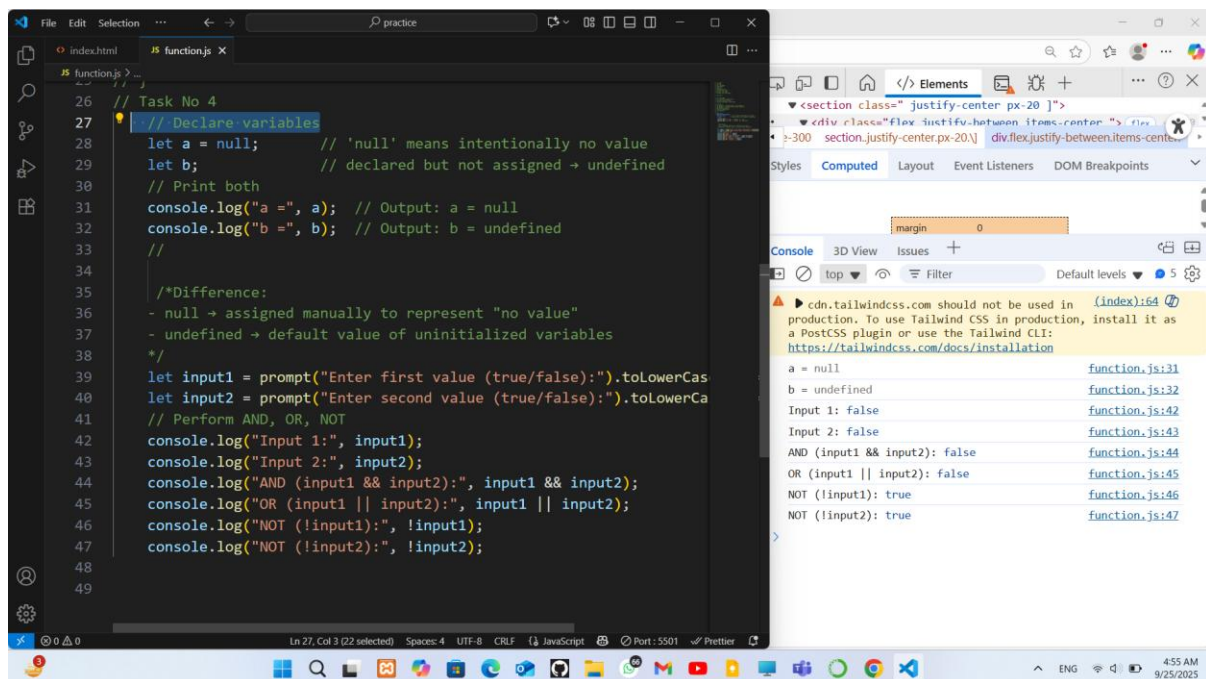
Declare a variable with null and another with undefined.

Print both and explain their differences in a comment.

### Logical Operators

Take two boolean values (true or false) from the user.

Perform AND, OR, and NOT operations and show the results ?



The screenshot shows a code editor with a JavaScript file named 'function.js' and a browser console. The code in the editor is as follows:

```
26 // Task No 4
27 // Declare variables
28 let a = null; // 'null' means intentionally no value
29 let b; // declared but not assigned → undefined
30 // Print both
31 console.log("a =", a); // Output: a = null
32 console.log("b =", b); // Output: b = undefined
33 //
34
35 /*Difference:
36 - null → assigned manually to represent "no value"
37 - undefined → default value of uninitialized variables
38 */
39 let input1 = prompt("Enter first value (true/false:).").toLowerCase;
40 let input2 = prompt("Enter second value (true/false:).").toLowerCase;
41 // Perform AND, OR, NOT
42 console.log("Input 1:", input1);
43 console.log("Input 2:", input2);
44 console.log("AND (input1 && input2):", input1 && input2);
45 console.log("OR (input1 || input2):", input1 || input2);
46 console.log("NOT (!input1):", !input1);
47 console.log("NOT (!input2):", !input2);
48
49
```

The browser console shows the output of the code:

```
a = null
b = undefined
Input 1: false
Input 2: false
AND (input1 && input2): false
OR (input1 || input2): false
NOT (!input1): true
NOT (!input2): true
```

The console also shows a warning from cdn.tailwindcss.com about not using it in production.