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Session 1 Homework

Code For Everyone JavaScript

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|  | **Study** |

1. Read about variables and data types in these documents:
   1. Variables: <https://javascript.info/variables>
   2. Data types: <https://javascript.info/types>

Hoặc bằng tiếng Việt:

* 1. Biến: [MindX C4EJS - Biến](https://github.com/edtechkidsvn/c4ejs-student-book/blob/master/variables/variables.md)
  2. Kiểu dữ liệu: [MindX C4EJS - Kiểu dữ liệu](https://github.com/edtechkidsvn/c4ejs-student-book/blob/master/data_types/data_types.md)

And answer the following questions:

1. In JavaScript, in what cases, you will get the **SyntaxError** telling you that some of your variables have **invalid names**? Can you give 3 different examples of **invalid variable names**?

*🡪Answer:*

*Variable name can contain “letters”, “digits”, “$” & “\_”; first character of variable name cannot be digit; and these will return SyntaxError:*

*let class*

*let return*

*let function*

1. In JavaScript, how to check a variable data types?

*🡪Answer:*

*typeof x // x is variable you wanna check*

1. Watch [this video](https://drive.google.com/open?id=1Fv92MtRL4swtsTng-W8_XRMIVm_aD6p4) to review about HTML, CSS, JavaScript functions in the front-end web, and then connect these two columns

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| 1. Front-end 2. HTML 3. CSS 4. JS | 1. Content 2. Consists of HTML, CSS, JS 3. Direct User interaction 4. Store data of all users 5. Decoration, appearance |

*🡪Answer:*

*1-b, 2-a, 3-e, 4-c*

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|  | **Serious exercices** |

1. Declare the following variables
   1. A String named message with value ‘**Coding is great**’, then use console.log to print it out

*🡪Answer:*

*let message = (‘Coding is great’);*

*console.log(message)*

* 1. A Number named studentCount with value **0**, then use console.log to print it out

🡪*Answer:*

*let studentCount = (0);*

*console.log(studentCount)*

1. Update the declared variables in Exercise 3
   1. Change message into **‘Coding might not be easy, but still great’**, then use console.log to print it out

*🡪Answer:*

*message = (‘Coding might not be easy, but still great’);*

*console.log(message)*

* 1. Change studentCount into total of the students in our class right now (**16** for example), then use console.log to print it out

*🡪Answer:*

*studentCount = (16);*

*console.log(studentCount)*

* 1. After completing exercise *a*, change the message into lowercase, then use console.log to print it out

*🡪Answer:*

*message = (‘coding might not be easy, but still great’);*

*console.log(message)*

* 1. After completing exercise *b*, increase studentCount by **1**, then use console.log to print it out

*🡪Answer:*

*studentCount = (studentCount +1);*

*console.log(studentCount)*

1. Write a script to show user a nice message

*🡪Answer:*

*alert (‘You look beautiful today’);*

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1. Write a script to ask user about their name, and then say hi to them, say something nice to them if you want :)

*🡪Answer:*

*let name = prompt (‘Hi there, your name please?’);*

*alert (`Hi ${name}`);*

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1. Write a script that ask 2 things from users, their **first name** and **last name**, then greet them with their **full name**

***🡪****Answer:*

let firstName = prompt ('Enter your first name');

let lastName = prompt ('Enter your last name');

alert (`Hi, ${lastName} ${firstName}`);

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1. Write a script that calculates the area of a square

🡪*Answer:*

let squareLength = prompt ('Enter side length of the square');

let squareArea = squareLength \* squareLength;

alert (`The square area is ${squareArea}`);

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1. Write a script that calculates the area of a circle

*🡪Answer:*

let circleRadius = prompt ('Enter the radius of the circle');

let circleArea = circleRadius \* circleRadius \* 3.14;

alert (`The circle area is ${circleArea}`);

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1. Write a script that converts **Celsius** (0C) into **Fahrenheit** (0F)

*🡪Answer:*

*let tempC = prompt ('Enter the tempreture in Celsius');*

*let tempF;*

*tempF = tempC \* 9/5 + 32;*

*alert (`${tempC} (C) = ${tempF} (F)`);*

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