Session 1 Homework

Code For Everyone JavaScript

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| https://lh6.googleusercontent.com/AHSx6k9xVSepvU7HVcfcmcZ-DwyWQi65PkF-NKJduMXY4jIbPpGeMhDBu3UtiuyW0eOfEdob0kkTOkDExq1Rk2tMHhAK_Jox7BKJhQmpa9VyuuUnta9RHfyAgRmv0sdFRUnRUxk | **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**?

*Trả lời : có 3 trường hợp sẽ báo lỗi biến không hợp lệ*

*1 . Biến được khai vào hai lần*

*Ví dụ : var a = 1*

*var a = 2*

*Biến a đã được gán bằng một chúng ta không thể tiếp tục gán biến a bằng 2 trường hợp này sẽ báo lỗi.*

*2 . Đặt tên biến*

*Trong phần đặt tên biến sẽ có hai trường hợp báo lỗi*

* + - *Kí tự đầu tiên là một chữ số*

*Vd : var 1a;*

* + - *Tên chứa các kí hiệu khác với các chữ cái, chữ số hoặc các ký hiệu $và \_*

*Vd : var user-name;*

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

*Trả lời : Trong JavarScrip chúng ta có thể sử dụng toán tử với các giá trị như Number, String , hoặc Boolean để kiểm tra dữ liệu của biến.*

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 |

*Sample answer:*

*1 - a, 2 - e, 3 - b ...*

Trả lời : 1 - b , 2 – a , 3 – e , 4 - cd

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| https://lh6.googleusercontent.com/aMDl5JWlD43BqhpcUWHXXXyeZzxVlJ-seJtLp6ZcLNV9Jk2ec1_ruzWyOiYFt9kGEaIRu8ZI_OXp6gRRcHnkHCWXNwfhbnFwJz0Ba51AOSPjhgEA7CF4b7o13QkBVpi488I1AEs | **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
   2. A Number named studentCount with value **0**, then use console.log to  print it out

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
   2. Change studentCount into total of the students in our class right now (**16** for example), then use console.log to print it out
   3. After completing exercise *a*, change the message into lowercase, then use console.log to print it out
   4. After completing exercise *b*, increase studentCount by **1**, then use console.log to print it out

1. Write a script to show user a nice message

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| https://lh6.googleusercontent.com/qBL96EZ94taKeAMTxVy5fxKv9cDnqo4EmsD_tkB7hohwi2rCvS9ODBDq30vz01FYhfoFOmNT_PO_oY7hzaAnzt1cLkntS1jipOiyD1udqurpC5PHaXwPymqqPTVd_d3rxnhyN98 |

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

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| https://lh4.googleusercontent.com/1bZg9lowBdTSPX7dMe6ikgIU4yArAiUXAwpZplE2gNtKsDleTX2cRxBiYb8sJesTrnU0oHAKt0-8c2PLXqLUbdBJfVOuq_QBXUvbYJAHwYTFHKKwgTfIXX-XKecYq930oUoJpq4 | **https://lh4.googleusercontent.com/En3XDFKIHC9R9B_qzJPj2TRYAvoOlwuTpKADFRu-N88v1-KAqf_85SF56TtIsX-gcGT29OEi8iabix5iaEHqTL5hUfaqLDu-mUbkgKfo9WOY3xGM7pgXxD6nE5VytdJCg8VLcck** | https://lh5.googleusercontent.com/vpNjHwRFDIa1fvY7ewq8JTeta7-xDoOwm0A6S0AaB7UV9BRrarhU3S4QcpoH5ux73959nUvTktDf-EMtULkBUbgxymj232ywq-NsYwmflWrwzU87ouI8Icc55GyxoQzNkZrrneY |
|  |  | https://lh4.googleusercontent.com/En3XDFKIHC9R9B_qzJPj2TRYAvoOlwuTpKADFRu-N88v1-KAqf_85SF56TtIsX-gcGT29OEi8iabix5iaEHqTL5hUfaqLDu-mUbkgKfo9WOY3xGM7pgXxD6nE5VytdJCg8VLcck |
|  |  | https://lh5.googleusercontent.com/qk9PQsgx14kudZASVLoGUnre3mAowAKEpp9TYMAEWJilxpHW5mRmt-VsWKklgSzvwGeL8juj6J5oofNjTAsnq5rXf7IFRvZevf1QnfuHZFvftKx61cUcwIB9ZCYypm2gAdViyN8 |

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

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| https://lh6.googleusercontent.com/mRpZ16P4u0KSQHQmU2bqK8HA8aPtpaipsmqVOasfteN1JwVBdxKuOthXPdxq8yZ5iHDjHu3ThOH7m3weGT355iRLqXFqZr07_7J9VZDLeMRK9QD4_PbC6I7JH0-f24wMc_AXo-o | **https://lh4.googleusercontent.com/En3XDFKIHC9R9B_qzJPj2TRYAvoOlwuTpKADFRu-N88v1-KAqf_85SF56TtIsX-gcGT29OEi8iabix5iaEHqTL5hUfaqLDu-mUbkgKfo9WOY3xGM7pgXxD6nE5VytdJCg8VLcck** | https://lh5.googleusercontent.com/IcWWUyNBUiocO-j_qUM4qJJ8y9TGoOJ0Jvy5WWNWNmxs37vOOSpOLvhTAnWW89k3g3lbkQ8BNH7-VpGShZoRK8cRzCrDelqj6GXl6D6ltPAR84v0L83QqdV4_jMRTIT6HlLrXFc |
|  |  | https://lh4.googleusercontent.com/En3XDFKIHC9R9B_qzJPj2TRYAvoOlwuTpKADFRu-N88v1-KAqf_85SF56TtIsX-gcGT29OEi8iabix5iaEHqTL5hUfaqLDu-mUbkgKfo9WOY3xGM7pgXxD6nE5VytdJCg8VLcck |
| https://lh3.googleusercontent.com/HfgNG-052Fu9HlwwGLGVqMrNZ738jA0rATqoD4UKZyUCJHoPgp3Btb7jaLUKxF5AW-16gYzAivBpy6BL19S8q59Mr-88zeVxWZ2PbD4Z2Ay1aLhLET2lM-VH8_7agrpnOqygGkw | **https://lh4.googleusercontent.com/En3XDFKIHC9R9B_qzJPj2TRYAvoOlwuTpKADFRu-N88v1-KAqf_85SF56TtIsX-gcGT29OEi8iabix5iaEHqTL5hUfaqLDu-mUbkgKfo9WOY3xGM7pgXxD6nE5VytdJCg8VLcck** | https://lh3.googleusercontent.com/UtgPWM3FHoPOe952ajxAa3zmulkhazKLkXXqtfe1C60XcMAjdUL2aD9sEkldhSF4yFSsQXZYf3fz53FJJlEWT6dc6TXqmVA9Mi-mUOZM_c8ctm3QlBpdjJiktF6fXd_6kLu4OTo |
| https://lh4.googleusercontent.com/En3XDFKIHC9R9B_qzJPj2TRYAvoOlwuTpKADFRu-N88v1-KAqf_85SF56TtIsX-gcGT29OEi8iabix5iaEHqTL5hUfaqLDu-mUbkgKfo9WOY3xGM7pgXxD6nE5VytdJCg8VLcck |  |  |
| https://lh5.googleusercontent.com/4dX6eldlUq5kiKgaS-xjsAWw5sAxl7MOb3W5vsO6Y_lQIilsodoIKhVqAlXrfJSRCVUhN-Wf6i70uGoL4b8T3ZRaPWQLcR9NMeWOnNnSlsefKvgMeURK5068wIY-oGYRV9O05FI |  |  |

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

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| https://lh3.googleusercontent.com/I0d4tUoSCTiWS0tTiiJ1DCyYQBZ3S14G-hEwgftnHzs0MCr3dHp1g-385iEytupB9Y-kqLk78F29k5HaFTqeCywsmGe5Yof5xr8mFyIDsl2N1hMT40uXtTAk5WfN7G0-64N-Zik | **https://lh4.googleusercontent.com/En3XDFKIHC9R9B_qzJPj2TRYAvoOlwuTpKADFRu-N88v1-KAqf_85SF56TtIsX-gcGT29OEi8iabix5iaEHqTL5hUfaqLDu-mUbkgKfo9WOY3xGM7pgXxD6nE5VytdJCg8VLcck** | https://lh5.googleusercontent.com/ht4sVU0D4gCD-CcT5Y1xxFOsIoceePiiCjz4Avy8rMYraCANYE-GO2RVYgSH4vs57Tq50EHPTb416rI0cUEf-u7Irq7ndfAUI3iorotl_JvUgCvhZ5SuV8lC_pA32Vd-Cguj-pc |

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

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| https://lh6.googleusercontent.com/HhqINljjpu_tUoFzd0QGJE-vkRkkmbCAEOEr3Kgkeknsf34IZdA8BLPTtpiA4G4DtSFxmf1ztFgvgU8iwj_tVQNNM-1PgbgE7SbZS5Q_K5V9JJ1fz7wa4tp83tidi05KESLsbyk | **https://lh4.googleusercontent.com/En3XDFKIHC9R9B_qzJPj2TRYAvoOlwuTpKADFRu-N88v1-KAqf_85SF56TtIsX-gcGT29OEi8iabix5iaEHqTL5hUfaqLDu-mUbkgKfo9WOY3xGM7pgXxD6nE5VytdJCg8VLcck** | https://lh5.googleusercontent.com/WO_TSq-C6Z_DUERx_VEPUlorzJ2daCQXoPZEzrZrR3sb9fe2eYt2FmOKhoAastjOaqQqp_NHKus3HdmWbORdgOcowFHc5OcpBw8rDCdROeX5jtdRycIkvlwD4rUMkFplSewkZQE |

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

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| https://lh4.googleusercontent.com/VEOf0L-wZO0W8Vzf0Ei1fjYctrd4OBroL3aTzeUPfEQlEavAH8M_Jx10uDSK9NPqzU8fB0Ms45wjt1x9jXdqHTtjPL8HvZfheqov-hZU5l2bkA1PmxINAap-5SBlKLOVLis12zs | **https://lh4.googleusercontent.com/En3XDFKIHC9R9B_qzJPj2TRYAvoOlwuTpKADFRu-N88v1-KAqf_85SF56TtIsX-gcGT29OEi8iabix5iaEHqTL5hUfaqLDu-mUbkgKfo9WOY3xGM7pgXxD6nE5VytdJCg8VLcck** | https://lh4.googleusercontent.com/sLFKp_NQcqgt_LBnIOiQq-kRX2i_famJ7S-gxksyygv4aJNm5sHRR8wtS9FDb-yip2tMLALiQY94_a-Fnw8mQgBPEAuBLKHo8aN2w7QmGha4lbyn7O3bK3I11rexrgBIByDbI_w |

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