Eman Fathi Intake 42

## JavaScript Lab1

## (This lab is for deeply understand the language, try all code blocks and discuss the code with your lab instructor)

- 1- Create your first html file that contains any html tags.
- 2- Create an external JavaScript file and name it External.js ,then define the following variables in this file
  - a- Three number variables (number1,number2,number3) with different values (3,2.9,0xff)

Note: define numbers with var Your firstName ,middleName and lastName variables

Note: define firstName with ", middleName with 'and lastName with `(backtick).

- b- Define an array that holds different numbers and strings then name it numbers
- c- Define a flag variable with value true
- d- Finally print on log "This is the External JavaScript file"
- 3- Try the following assignments and write your comment
  - a- On External.js ->print the value of number1 on console before number1 definition line ?!
  - b- Create another internal script before external script in html and print the value of number1?
  - c- Now add another internal script after external.js script in html file and print the same value?

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d- WHAT IF you remove var keyword from number1 definition and repeat the previous 3 steps, does the result change?

- e- Try to change the value of number1, number2 or number 3 on developer tool console? What will happen???
- f- Try to change your firstName character at index 3 ,firstName[3]='A'Then print firstName variable on console.
- g- Print typeof all your variables
- 4- Now inside the html create an embedded script tag, then apply the following assignments and print the result on console (console.log function)
  - a- Summation of number1 and number2
  - b- Summation of number1 and array
  - c- Summation of flag and number2
  - d- Summation of firstName and flag
  - e- Summation of number1 and firstName
  - f- Multiplication of number1 and flag
  - g- Divide number1 and latName
  - h- Print your full Name with firstName, middleName and lastName variables with string template and backtick (ES6).
  - i- Display all array values on console as table
  - j- Display Numbers array but each number should be multiplied by 5
    - Then display only values that greater than 20 from resulted array

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## Studying: Operators on Day1 PDF file

## Searching:

1- in ES5 we can avoid define variable without var keyword by using 'use strict' mode!

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2- all number variables have a method called toString var number=30; number.toString(16); what does this method do?
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