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 number1 with var, number2 with let and number3 with const.

- b- Your firstName ,middleName and lastName variables Note: define firstName with ", middleName with ' and lastName with `(backtick).
- c- Define an array that holds different numbers and name it numbers
- d- Define a flag variable with value true
- e- 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?
 - NOTE: Try the same 3 steps for number2 and number3
- 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 numbers 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
 - j- Display Numbers array but each number should be multiplied by 5
 - Then display only values that greater than 20 from resulted array
 - read operators section in the power point presentations.