






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
(`var number1,let number2,const number3`)
with different values (3,2.9,0xff)
 - b- Your `firstName` ,`middleName` and `lastName` variables
Note: define `firstName` with `"` , `middleName` with `'` and `lastName` with ```(backtick).
 - 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 ?!
The repeat the same for number2 and number 3.
 - 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?
 - d- **WHAT IF** you remove var keyword from number1 definition and repeat the previous 3 steps , does the result change? 

- e- Repeat step a to b for number 2 , then for number3
 - f- Try to change the value of number1, number2 or number 3 on developer tool console? What will happen??? 
 - g- In the last script define a new variable let number2=20
What will happen?! 
Now define var number1=100 ?? 
 - h- Now repeat step g but now define the variables inside any for loop.
 - i- Try to change your firstName character at index 3
,firstName[3]='A' 
Then print firstName variable on console.
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 flag and number2
 - c- Summation of firstName and flag
 - d- Summation of number1 and firstName
 - e- Multiplication of number1 and flag
 - f- Multiplication of "10" and flag
 - g- Divide number1 and lastName
 - h- Print your full Name with firstName , middleName and lastName variables with string template and backtick (ES6).

Read operators section in the power point presentations.

Search: javascript strict mode 