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