

# JavaScript Lab2

Create javascript external file name it “functionsScript.js” and another external file name it “ConsumingScript.js”

First file will contain all functions (all functions have an input and return value) and the other js file will contain the calling of these functions

Assignment 1: testing hoisting and function's call

- 1- Create function name it `printVariables(value1,value2,value3)` (as function declaration) takes 3 parameters and return them as an Array
  - a- try to console.log the values of value1,value2,value3 on consumingScript.js file ??
  - b- Try to call the function before definition line?
  - c- Call the function with 3 values then print the return
  - d- Try to call the function with less than 3 parameters `printVariables(3,5)` .  
Then solve the problem of undefined variables
  - e- What if you call the function with too many parameters ? (more than 3)  
Can you print them using (`arguments`)?
  - f- Define `var localVar=3; testingVar=5;` inside the function's block  
Before calling the function try to console.log the values `localVar` and `testingVar`.??

- g- In step f , call the function and try to print `localVar` and `testingVar`?
- h- Define the following variable on your script outside the function  
`let localVar=90;`
- Before calling the function try to `console.log` the value `localVar`
  - then try to `console.log` `localVar` after calling the function
  - Now try to `console.log` the value of `localVar` inside the function but before variable's definition line.
  - Now inside the function what if you remove `let` from `localVar` and repeat the previous Steps again?
- 2- Repeat step 1 but define the function as function expression
- 3- Repeat step 1 but define the function as arrow function

### Bonus

Write a JavaScript function that accepts a string as a parameter and counts the number of vowels within the string.