

## JavaScript Lab2

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

First file will contain all functions and the other js file will contain the calling of these functions

### 1- Considering 2 Teams Playing a Game

We need to build functions to calculate the winner Team.

Any Team can win if its average of three scores is greater than the other Team average score, otherwise we have no winner.

a-create a function `calcAverage` to calculate the average of 3 scores.

b-create a function `checkWinner` to determine the winner Team

Testing Data :

Case 1 : Team1 scores (44,23,71)    Team2 scores (65,54,49)

Case 2 : Team1 scores (85,54,41)    Team2 scores (23,34,27)

2- Take 2 numbers from user using prompt, (make sure that user entered a number value not username or empty string, if not show the prompt again)  
Then display the summation result on console

3- Now take how many numbers the user wish to sum from a prompt then repeat number step 2

### For Testing hoisting and function's call

1- Create function name it `printVariables(value_1,value_2,value_3)` (as function declaration) the function call will print the values on console.

a- Call the function

b-try to console.log the values of value1,value2,value3 on consumingScript.js file ??

c- Try to call the function before definition line?

d- Try to call the function with less than 3 parameters

`printVariables(3,5)` .

e- What if you call the function with too many parameters ? (more than 3)

Can you print them using (`arguments`)?

f- Define `var value_4=3; value_5=5;` inside the function's block then before calling the function try to `console.log` the values `value_4` and `value_5`.??

g- In step f , call the function and try to print `value_4` and `value_5`?

h- Define the following variable on your script (functions' script) outside the function `let value_4 =90;`

- `in consuming script` Before calling the function try to `console.log` the value `value_4`

- then try to `console.log value_4` after calling the function

- Now try to `console.log` the value of `value_4` inside the function but before variable's definition line.

- Now inside the function what if you remove `let` from `value_4` and repeat the previous Steps again?

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