

FUNCTION CHECK LIST

- ✓ Chose a name for your function. This should remain us what the function does. To construct the name use only A-Z, a-z, 0-9 characters. The underscored is the only special character allowed but hardly used in function names.
- ✓ Define the input argument
- ✓ Define the function results and output arguments
- ✓ Define a variable or variables within the function to store the results. This name should also be written in the function header before the equal sign. WARNING: The name of this variable cannot be the same as the function name.
- ✓ Start the function with the “function header” which includes: the key-word **function**, the variable or variables which store the results, an equal sign, the name of the function and the input arguments within parentheses.
- ✓ Write a comment immediately below the function header explaining what the functions does, in general terms. You can write more comments, e.g., variable definition.
- ✓ Write the function body. These are the executable statements that process the data input into useful results. This can include simple, if, or for statements. Each if and for statement must finish with end statement. It can contain high level MATLAB operator or vectorized code.
- ✓ Store the function. Pay attention to the fact that the file name must have the same name as the function name. The file must be stored in a folder matlab can find later. “Set path” is used for a new folder.
- ✓ By calling the function you can debug it in the Command Window or in a new program (depending on the complexity of the function).