

## Assignment 3

The script `Test_Assignment_3.m` calls the function `find_match` which you have to add to the script, according to the following specifications. **Please read them carefully!**

```
function result=find_match(key,struct,field)
% input arguments: %%%%%%%%%%%%%%%
% key: search string, character array or string
% struct: structure array
% field: name of the field of struct that is to be searched, char array or string
%         if empty or missing: all fields of struct are searched;
%         if field does not match a field name of struct,
%         print out a warning and return an empty result;
%         the matching is case insensitive
%
% >> if any input argument is not of the correct type, return an empty result
% and print an error message <<
%
% output argument: %%%%%%%%%%%%%%%
% result: vector of indices of the elements of struct where a match is found
% Example: result=find_match('01',struct,'myfield') should return the indices
%           of those elements of struct where the string '01' is found in field
%           'myfield'
% Example: result=find_match('01',struct) should return the indices
%           of those elements of struct where the string '01' is found in any field
```

Useful functions: `nargin`, `fieldnames`, `strcmp`, `getfield`, `lower`, `contains`

Instructions for submission: Add the function `find_match` to the script `Test_Assignment_3.m`, test the script and check the results. Pack the completed script in the zip file `Assignment03_Groupxx.zip`<sup>1</sup> and submit it until March 28, 6pm.

---

<sup>1</sup>xx is your group number