

Instructions:

- Please submit all 3 files of 'code' in the native source files (*.fs). The required filenames are in parenthesis for each exercise below.
- Put into each F# source file:
 - `printfn "CSc4330 PLC, SP2023"`
 - `printfn "<your name>"` (e.g., `printfn "William Johnson, Ph.D."`)
 - `printfn "Lab: XXXXXX.fs"` (e.g., `printfn "Lab: Calc.fs"`)
 - `printfn`
- Upload each source file (3) into the Assignment, drop box.
- Take a screen shot (Visual Studio or FSharp.org) of each output.
 - You can upload all three output images as separate files or combine into one file. **(Please label the filenames to lab exercises.)**
 - Must show the output answer, your name, and lab 'filename' for each image.
- Upload the image(s)
- Assignment, drop box will only accept .fs, .docx, .doc, or .pdf formatted files.
- No late submissions allowed, no exceptions.

1) Simple Calculator (Calc.fs)

Write an F# program that asks the user for two numbers and performs basic arithmetic operations (addition, subtraction, multiplication, and division) on them. Output the results to the console.

2) Array Operations (Array_Ops.fs)

Write an F# program that creates an array of 10 integers and performs the following operations:

- Print the array to the console
- Find the sum of all the elements in the array
- Find the maximum and minimum values in the array

3) List Operations (List_Ops.fs)

Write an F# program that creates a list of 7 different strings and performs the following operations:

- Print the list to the console
- Find the length of the list
- Sort the list in alphabetical order