## Lab and Homework 02

## Probrem 1

Remember a factorial problem in the previous homework? Make a function named factorial(n) and try calling it from main function.
> Save to L03_ex_01.c

## Probrem 2

Make a recursive function to print $n^{\text {th }}$ Fibonacci series, fibonacci(n). Try using this function to print the first ten terms of the series.
> Save to L03_ex_02.c

## Probrem 3

Create the grading system for a school teacher.

- Teacher will input each student' score from keyboard. (So, you need to store scores in an array.)
- The grading criteria is simple:
$>=80$ gets $A,>=70$ gets $B,>=60$ gets $C,>=50$ gets $D$, else $F$.
- The result would be printed as:

Student 1: score $=85.5$, gets $A$
Student 2: score $=63.5$, gets $C$
> Save to L03_ex_03.c

## Probrem 4 (optional)

Solve $\mathbf{A x}=\mathbf{b}$ using Gaaussian elimination. A test on $3 \times 3$ system would be enough.
You would find out more on the algorithm from [Wolfram] or [Wikipedia].
> Save to L03_ex_04.c

## Zip and send it to puwis.ama@mahidol.ac.th. The due is at 08:00AM of 8 Feb 2018. Late penalty is like the previous homework.

Good luck and have fun.

