SCPY204: Homework 01

Program 1: Having fun with the prime number.

I assume that you all have already known about prime number well. If not, go to https://en.wikipedia.org/wiki/Prime_number. Here are the assignments:

[Problem 1a] Write a program, in C, to check if the input number is a prime or not.

[Problem 2a] Write a program to list prime numbers in the specific interval. (e.g., 200 to 400 using user input)

[Problem 1c] Write a program to find the summation of prime numbers from 1 to 1000. **Save to**: hw01_p1a.c hw01_p1b.c, and hw01_p1c.c

Program 2: Fibonacci Series (https://en.wikipedia.org/wiki/Fibonacci_number) Write a program, in C, to list Fibonacci series from 0 to 200 and find their summation. Save to: hw01_p2.c

Program 3: Factorial (https://en.wikipedia.org/wiki/Factorial) Write a program, in C, to find the factorial of any input integer. Save to: hw01_p3.c

Program 4: Automatic telling machine

Write a program, **in C**, for an automatic telling machine (ATM).

Usage of this ATM:

> Users will input their desired amount of money to withdraw.

> ATM will check if the input is correct or not (with available banknotes and withdrawal limitation).

> AMT will then list how many banknotes that the user will receive.

* Available banknote will be 100, 500 and 1000 THB notes.

* The withdrawal limitation for this AMT is 30,000 THB.

Save to: hw01_p4.c

Submission: Zip those files and send it to me at puwis.ama@mahidol.ac.th before 08:00AM of 26 Jan 2017. After that, your homework score will be reduced by 1 point every two days. Total score for this homework assignment is 10 points.