

## University of Colombo School of Computing Data Structures and Algorithms II

Tutorial - 1

## time.h in C

## In one text (.txt) file

- 1. What is the **time.h** header file?
- 2. Describe three time related data types.
  - (i) clock t
  - (ii) time\_t
  - (iii) struct tm
- 3. Define following predefined functions.
  - (i) difftime()
  - (ii) ctime()
  - (iii) clock()

## In two C (.c) files

- 4. Write a program to print the date and time of the system.
- 5. Write these C programs in a single file,
  - (i) To calculate the time taken to add 8000 numbers to the program.
  - (ii) To calculate the time taken to add 8000 numbers with pointers.

**Hint** - Use loops to put data into arrays