

# COE 301/ ICS 233, Term 171

## Computer Architecture & Assembly Language

### Programming Assignment# 1 Due date: Tuesday, Oct. 17, 2017

- Q.1.** Write a MIPS assembly program to do the following:
- i.** Asks the user to enter the size of an array of integers (i.e., words),  $n$ .
  - ii.** Reads  $n$  integers and stores them in the array.
  - iii.** Display the sum, maximum and minimum of the array.
  - iv.** Ask the user to enter an array index  $k$ . If the index is outside the array range, print the statement that the requested element is out of range. Otherwise, print the content of array at the requested index.

*This assignment can be solved in groups of two. The solution should be well organized and your program should be well documented. Your solution should be submitted in a **pdf file** that contains the following items:*

- i. Your name(s) and ID(s)*
- ii. Assignment number*
- iii. Problem statement*
- iv. Your solution along with the code*
- v. Discussion of what worked and what did not work in your program. Include snapshots that demonstrate the working parts of your program. If things did not work and you attempted to solve them, mention that and write about the difficulty that you have faced.*

*Submit a soft copy of your solution in a zip file that contains the pdf file and a separate file that has your assembly code for testing purposes.*