King Mongkut’s University of Technology Thonburi

Faculty of Engineering, Department of Computer Engineering

**CPE 223 Computer Architecture**

**PROBLEM SESSION 4: Assembly Language.**

1. Download “visUAL2” emulator software to compile and test your ARM assembly source code from this link: https://scc416.github.io/Visual2-doc/download
2. Write a program from Assembly programming language in the “visUAL2” emulator software, you can choose only one between
   1. Insertion sort (get 80% score.)
   2. Selection sort (get 80% score.)
   3. Quick sort (get 100% score.)
3. Test and compile your program on “visUAL2” emulator software only, there is no need to compile with your native complier on your workstation.

**Submission**

Submit the source code and the PDF document files with explanation of your source code and output result. This is the problem session for the group of 2-3 students.

**Hint**

- You can download the “Lab4\_GuideLine.pdf” from LEB2 to study about sorting algorithm.

- You can download the “BubbleSort.s” from LEB2 as an example about how to write and compile assembly code with “visUAL2” emulator software.

- Further information: https://tomcl.github.io/visual2.github.io/guide.html