THE MICROPROCESSORS & MICROCONTROLLERS

Instructor: The Tung Than

PRACTICE EXERCISE #5:

ADDITION OF TWO 32-BIT NUMBERS ON THE 8086 PROCESSOR

- I. Student preparation
 - Students install the emu8086 software
- **II.** Practice content
 - 1. Refer to the example:
 - Students open File >> example >> add/subtract
 - Run test, based on the instruction set describing its operation.
 (Help >> Documentations and tutorials or Press F1)
 - o Know how to reuse their screen print code
 - 2. Write a program that adds 2 32-bit numbers.
- III. Exercise

Write a program to subtract 2 32-bit numbers.

IV. Report

Compress design files and report files into a file named as follows:

[<LAB...>]-[<Student code>]-Full name

The required report file contains the following contents:

- 1. Describe how sample code works
- 2. Flowchart of the program algorithm to add two 32-bit numbers.
- 3. Explain how the algorithm works, accompanied by a video (send a Google Drive link) to demonstrate the circuit operation in case the instructor cannot run the design file.