**In-Class Exercise # 2 – “Start Assembly Programming”**

Due Day: 2017/02/23, Thursday, 22:00

Objective: To understanding how to write simple Assembly program and program structure.

Explanations：

1. Use the course content to do practical exercises about register memory values in al, ah, ax and dx.

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| .code  main PROC  mov al, \_\_\_\_\_\_\_ ;last two digits of leader’s students ID in binary  mov ah, \_\_\_\_\_\_\_ ;last two digits of member’s students ID in decimal  mov ax, \_\_\_\_\_\_\_ ;last four digits of student’s ID in hexadecimal  mov dx, \_\_\_\_\_\_\_ ;let the value of dx is eeea  sub \_\_\_\_\_\_\_\_\_\_\_ ;value of dx subtracting by ax  main ENDP  END main |

1. Use WINdbg to shows registers and memory status when program executed and add screenshots to report in Word files.
2. Compress(.zip,.rar) the following file with the name of the group ( e.g. group\_1.zip)
   * 1. Code(\*.asm)
     2. Report(\*.doc)
        + Report Title
        + Group, name, student ID
        + Program execution flow, memory (register) status
        + Screenshots description code Description
        + Reviews
3. To update the contents of report can be directly re-upload file with the name of version (e.g. Group\_1\_v2.zip)

Note：

1. Each group, one report
2. Upload the file before 22:00 on the same day on e-Learning site (<http://lms.ncu.edu.tw/ncu>) to complete.