**In-Class Exercise # 3 – “A Simple Assembly Program”**

Due Day: 2017/03/02, Thursday, 22:00

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

Explanations：

1. Use the course content to learn. In the Guide Note 4-1 b point, there is a little change. Change the code to calculate Rval = -(Val3 – 14 \* (Val1 ＋ Val2).

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| --- |
| .data  Val1 SBYTE 03h  Val2 SBYTE 02h  Val3 SBYTE 8fh  Rval SDWORD ?  .code  main PROC  ; Please Write your code here.  exit  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\_01.zip)
   * 1. Code(exercise2.asm)
     2. Report(group\_01.doc or group\_01.pdf)
        + Report Title
        + Group, name, student ID
        + Program execution flow, memory (register) status
        + Screenshots description, code Description, every step review
        + 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 report to (<http://lms.ncu.edu.tw/ncu>) before 22:00.