**In-Class Exercise # 8 – “Start Assembly Programming”**

Due Day: 2017/04/07, Friday, 12:00

Objectives: Use the course content to learn how to make a macro CONVERT to convert even number in myID to ‘A’ and odd number to ‘B’ and save it to myID\_result.

Hint: Use division to divide the original number and take the remainder. Test the remainder whether is odd or even. Save the result into myID\_result.

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| .data  myID DWORD \_\_\_\_\_\_\_\_\_\_\_\_\_d ;Student ID of Leader in decimal  size\_ID = 9 ;size\_ID is length of myID  space byte 7 DUP(0)  myID\_result byte "\_\_\_\_\_\_\_", 0 ; Student ID of Leader in string  .code  start@0 PROC  mov eax, myID  call WriteDec  call Crlf  convert myID, size\_ID, myID\_result  mov edx, OFFSET myID\_result  call WriteString  call Crlf  call WaitMsg  exit  start@0 ENDP  END start@0 |

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)
        1. Report Title
        2. Group, name, student ID
        3. Program execution flow, memory (register) status
        4. Screenshots description code Description
        5. 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 Friday, 12 a.m.