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

Deadline: 2022/11/15, Tuesday, 12:00 P.M.

(Please use the content learned in the course, add PROCEDURE named FindLargest to the program, and pass two parameters after calling FindLargest.

aPtr points to the incoming array, and arraySize is the size of the array. You need to find out the largest number in the array, and save the result in the eax register.)

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| INCLUDE Irvine32.inc  main EQU start@0  .stack 4096  ExitProcess proto,dwExitCode:dword  \_\_\_\_\_\_\_\_ proto \_\_\_\_:\_\_\_\_ SDWORD,\_\_\_\_\_\_\_\_: DWORD  ;Declare FindLargest procedure 的prototype  .data  Ex1Array sdword 105522063 , \_\_\_ , \_\_\_  ;Initialize with 105522063, student ID1 , student ID2  Ex2Array sdword -105522063 , \_\_\_ , \_\_\_  ; Initialize with-105522063, negative ID1 ,negative ID2    .code  main proc      \_\_\_\_\_\_ FindLargest, \_\_\_\_ Ex1Array, \_\_\_\_\_\_\_\_ Ex1Array      \_\_\_\_\_\_ FindLargest, \_\_\_\_ Ex2Array, \_\_\_\_\_\_\_\_ Ex2Array      ;call FindLargest procedure        call WaitMsg      invoke ExitProcess,0  main endp    FindLargest proc,      \_\_\_\_:\_\_\_\_ SDWORD, \_\_\_\_\_\_\_\_\_:DWORD      push esi      push ecx      mov  eax,\_\_\_\_\_\_\_\_h  ; smallest possible 32bit signed integer      mov  \_\_\_,\_\_\_     ; point to the first element      mov  ecx,\_\_\_     ; set iteration times    L1: \_\_\_ \_\_\_,\_\_\_     ; compare the current value and current maximum      \_\_\_  L2          ; if smaller than max,jump to L2      \_\_\_  \_\_\_,\_\_\_     ; update max value    L2: add  esi,4      loop \_\_\_        call WriteInt      call Crlf        pop ecx      pop esi      \_\_\_\_               ; Return from subroutine  FindLargest endp    end main |

Report：

* Deadline : 2022/11/15(Tue.) Before 12:00 P.M. (EEClass)
* Each group only needs to submit one report
* Pack the following files and compress into .zip file.
* Zip file name -> (ex: lab8\_groupX.zip)
  1. Code (lab8\_groupX.asm)
  2. Report (lab8\_groupX.doc or  lab8\_ groupX.pdf)
     + Title
     + Group、StudentID、Name
     + Screenshots of Result and Code + Explanation
     + The report has to clearly explain how the program works.
     + Thoughts about the lab.
* Please must be aware of the file name.
* If you want to update your file, please give a new file name (ex: lab8\_group01\_v2.zip).