



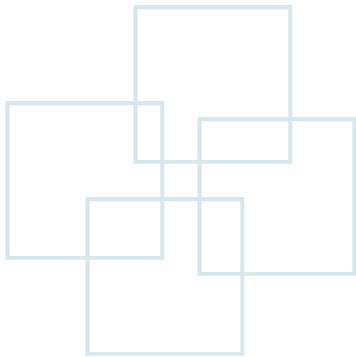
National University of Kaohsiung

Assembly Language

HW Ch 6

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Problem 1

- Create a procedure named *CalcGrade* that receives an integer value between 0 and 100, and returns a single capital letter in the AL register. Preserve all other register values between calls to the procedure. The letter returned by the procedure should be according to the following ranges:

Score Range	Letter Grade
90 to 100	A
80 to 89	B
70 to 79	C
60 to 69	D
0 to 59	E

- Input a score and show the result on the screen



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Problem 2

- Write a program that randomly chooses among three different colors for displaying text on the screen. Use a loop to display 20 lines of text, each with a randomly chosen color. The probabilities for each color are to be as follows: white = 30%, blue=10%, green=60%. Suggestion: Generate a random integer between 0 and 9. If the resulting integer falls in the range 0 to 2 (inclusive), choose white.



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Requirement

- ❑ Complete the report ASM-HWCh6-StudentID.
- ❑ Deadline: two weeks later
 - 6/5
- ❑ Compress your report and source code(.asm) into a file named : HWCh6_“student ID”.zip (ex. HWCh6_a1005501.zip) and upload it to e-learning platform.
- ❑ Don't cheat. Otherwise, your score will be 0. Please try to write the assembly code by yourself.