

Assignment 5 (100 points) – ARM Coding Assignment**A. Problem**

For a DE1-SoC system, write a code which displays on the six 7-segment LEDs (a) The first 3 letters of your last name on the three left-most 7-segments and (b) 3-digit numbers counting, repeatedly, 000 to 999, on the three right-most 7-segments.

B. Coding instruction

(i) Add comments which sufficiently explain your coding design, allocation of registers to variables, etc.

(ii) Do not get help from others. Write your own code yourself. Remember “Howard student code of conduct” and 0 point for borrowed and lending works.

C. Score Distribution and Scoring Rubric: Total points = 100

	Rubric
100 pts	Code is written with comments which sufficiently indicate the coding design, register allocation, and variable declaration. The code works.
70 pts	Code is written with minimal amount comments which thus insufficiently indicate the coding design. However, the code works.
40 pts	Code is written with comments which sufficiently indicate the coding design, but it does not work.
0 pts	(a) No submission. (b) If two codes are almost identical with same register allocation and/or the same order of code sequence, etc.

D. Submission Requirement: Write your code in the CPULator and test it, and save the code file as **416Assign5_yourLastName4.s**. Submit the code file via email.

E. Submission due: Check the Webpage

F. Point Deduction on Late Submission (or Maximum score by submission time)

Submission Time/Date	Maximum score
By 5:00pm submission date (Fri)	100
By 5:00pm submission date + 3 (Mon)	70
By 5:00pm submission date + 4 (Tue)	50
By 5:00pm submission date + 5 (Wed)	30
After the above	0