

CTT10009 – COMPUTER SYSTEM

Homework 3

HW3: MIPS assembly programming

I. Information:

Code:	HW3
Deadline nộp bài:	
Form of submission:	Individual
Tool to submit:	Moodle
Supervisor:	Chung Thuy Linh
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II. Outcome

After this exercise you will reach to:

- G4.1: Explain the MIPS-32bit architecture design point of view.
- G4.3: Be able to understand and use assembly language to program in MIPS-32 bits platform in advanced (using stack, array and loop)

III. Describe

A. Write an assembly program (using MARS tool) to adopt these requirements:

1. Input an unsigned integer N
2. Calculate the sum of all elements from one to N
3. Print the result on screen

Ex:

Input N: 3

Result: 6

B. Write an assembly program (using MARS tool) to adopt these requirements:

4. Input a string
5. Print the reverse representation of the input string

Ex:

Input: hello

Result: olleh

IV. Submission requirement:

1. Report [student_ID.pdf](#) is included:
 - a. Your idea: writing in mindmap/ workflow form/ pseudo code
 - b. The result when you run your program (capture the screen)
2. Source code: [baiA.asm](#), [baiB.asm](#)
3. Please zip all files and submit to moodle site with the name **Student_ID.zip**