CTT10009 – COMPUTER SYSTEM

EXERCISES

EX2: MIPS assembly

I. Information:

Code:	EX2
Deadline nộp bài:	
Form of submission:	Individual
Tool to submit:	Moodle
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II. Outcome

After this exercise you will reach to:

- G4.3: Be able to understand and use assembly language to program in MIPS-32 bits platform

III. Describe

A. Please read the following MIPS code and named the meanning of this code (describe in C code/ pseudocode):

```
Loop:
stli $t0, $s0, 10
beq $t0, $zero, exit
sll $t1, $s0, 2
add $t1, $t1, $s2
add $t2, $s1, $s0
sw $t2, 0($t1)
addi $s0, $s0, 1
j Loop
exit:
```

B. Convert these C code to MIPS code:

```
1. f = g - h - B[4]          //f→$t0, g→$t1, h→$t2, B→$s0
2. if (a < b)                // a→$s0, b→$s1
     a = b - a;
   else
     b = a - b;
```

IV. Submission requirement:

1. Please submit to moodle site with the name **Student_ID.pdf**