Mid Exam (Numerical Input Part)

The following question has 5 parts. Each carries 1 mark.

Question

5.0/5.0 points (graded)

Program Counter	Instructions	Instruction No
01A6	Loop1: sll $t1, $t0, 2	1
	Add $t2, $t1, $s0	2
	Lw $s1, 0($t2)	3
	Slti $t4, $s1, 5	4
	Beq $t4, $0, Loop1Exit	5
	Loop2: addi $t3, $0, 2	6
	Slt $t6, $t3, $s4	7
	Bne $t6, $0, Loop2Exit	8
	Addi $t6, $t6, -1	9
	J loop2	10
	Addi $t0, $t0, 1	11
	J loop1	12
	J label2	13
	…	
	Loop1Exit:	
	Loop2Exit:	

All hexadecimal digits must be in CAPITAL letters

What is the memory address of instruction 5? (Write in 4 hex digits. For example, A03D.)

01AE ✔

What is the memory address of Loop1Exit of instruction 5, if the offset for beq instruction is 79? (Write in 4 hex digits)

024E ✔

What is the value of the PC (Program Counter) for the instruction 6?(Write in 4 hex digits)

01B0 ✔

What is the memory address of Loop2Exit of instruction 8, if the offset for beq instruction is 87? (Write in 4 hex digits)

0264 ✔

if the offset value of instruction no 13 is 356, what is the memory location of label2 in hexadecimal? (Consider the MSB 4 bit of PC as the MSB 4 bit of memory location. Write in 4 hex digits)

02C8 ✔

Submit You have used 2 of 2 attempts