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ECSE 221

Assignment # 4
Question (1)

a) addi $t0, $t0, 0 → 001000 01000 01000 00000000000000000
                           8   8   8   0

Hex → 0x21080000

slt $t1, $a3, $a2 → 000000 00111 00110 01001 00000 101010
                         0   7   6   9   0   42

Hex → 0x00E6482A

add $t0, $t0, $t1 → 000000 01000 01001 01000 00000 100000
                         0   8   9   8   0   32

Hex → 0x01094020

b) ori $t1, $0, 1 → 001101 01000 01001 0000000000000001
                        13   8   9   1

Hex → 0x35090001

add $t0, $t1, $t0 → 000000 01001 01000 01000 00000 100000
                         0   9   8   8   0   32

Hex → 0x01234020

beq $t0, $a3, .ifEqual → 000100 01000 00111 0000000000000001
                              4   8   7   1

Hex → 0x11070001

bne $t0, $a3, .ifNotEqual → 000101 01000 00111 0000000000000001
                                 5   8   7   1

Hex → 0x15070001