Homework 5

1. Given: $t0 = 0xAAAAAAAA, $t1 = 0x12345678, what is the value of $t2 after each of the following instructions are executed?
   
sll $t2, $t0, 4
   or $t2, $t2, $t1

2. Given: $t0 = 0xAAAAAAAA, $t1 = 0x12345678, what is the value of $t2 after each of the following instructions are executed?
   
sll $t2, $t1, 4
   nor $t2, $t2, $zero

3. Given $s2 = 0, and $t1 = 10, what is the value in $s2 after the following instructions execute?
   
   LOOP:
   addi $s2, $s2, 2
   addi $t1, $t1, -1
   bne $t1, $zero, LOOP

   DONE:

4. Given $s2 = 0, and $s0 is the base address of an integer array A, what is the following code doing? (HINT: Integers take 4 bytes in memory)
   
   addi $t1, $zero, $zero

   LOOP: lw $s1, 0($s0)
   add $s2, $s2, $s1
   addi $s0, $s0, 4
   addi $t1, $t1, 1
   slti $t2, $t1, 100
   bne $t2, $s0, LOOP