**Question 5**

$t0 = random 32 bit number

$s0 = sum (number of 1’s)

addi $s0, $0, 0

loop1: beq $t0, $0, end

and $t1, $t0, 1

bne $t1, 1, loop2

add $s0, $s0, 1

loop2: srl $t0, $t0, 1

j loop1

end: