Question 3 (7 points)

You should display 01100000000 submit as Q3.s

Here is the code

main:	addi	\$v0, \$0, 5	
	syscall		# read an integer into v0
	add	\$t0, \$0, \$v0	# put the number you read in t0
	addi	\$v0, \$0, 1	# prepare to write (syscall)
	addi	\$t1, \$0, 1	#t1 = 00 001 (mask to choose the left most bit)
	addi	\$t2, \$0, 13	#maximum number of iteration
	addi	\$t3, \$0, 1	# start a counter = 1;
loop:	beq	\$t2, \$t3, end	# if t2 == t3 stop
	and	\$a0, \$t0, \$t1	#choose the bit to display put it in a0
	srl	\$t0, \$t0, 1	# Shift the number you read to the right, so
			#the next bit will be in position 0
	syscall		#print either 0 or 1
	addi \$t3, \$t3, 1		#increase the counter by 1
	j loop		2
end:	jr \$ra		