Assignment 1

“ TOWER OF HANOI ”

Code in MIPS:

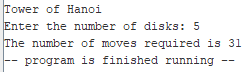
.data

Assignment1:.asciiz "Tower of Hanoi\n"

disk: .asciiz"Enter the number of disks: "

moves:.asciiz"The number of moves required is "

.text

li $v0, 4

la $a0, Assignment1

syscall

li $v0, 4

la $a0, disk

syscall

li $v0, 5

syscall

move $t7, $v0

li $t6,2

li $t0,1

li $t1,0 #counter

li $t2,0

again:

add $t1,$t1,1

mul $t0,$t0,$t6

bne $t7,$t1,again

jal end

end:

sub $t0,$t0,1

li $v0, 4

la $a0, moves

syscall

move $a0,$t0

li $v0, 1

syscall

li $v0, 10

syscall