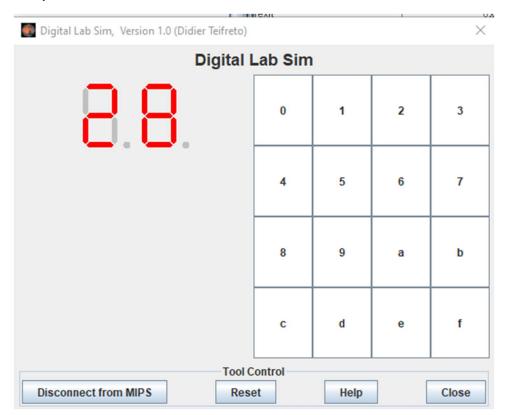
Laboratory Exercise 10

Đỗ Hải Dương - 20194528

Home Assignment 1 - LED PORT

```
1 .eqv SEVENSEG LEFT 0xFFFF0011 # Dia chi cua den led 7 doan trai.
2
                            # Bit 0 = doan a;
3
                            # Bit 1 = doan b; ...
                            # Bit 7 = dau.
4
5 .eqv SEVENSEG RIGHT 0xfffff0010 # Dia chi cua den led 7 doan phai
6 .text
7 main:
   li $a0, 0x5B # set value for segments
8
     jal SHOW_7SEG_LEFT # show
9
10
         nop
        li $a0, 0x7F # set value for segments
11
        jal SHOW_7SEG_RIGHT # show
12
13
        nop
14 exit: li $v0, 10
15
    syscall
16 endmain:
17 #-----
  # Function SHOW 7SEG LEFT : turn on/off the 7seg
19 # param[in] $a0 value to shown
20 # remark $t0 changed
21 #-----
22 SHOW 7SEG LEFT:
   li $t0, SEVENSEG LEFT # assign port's address
23
24
        sb $a0, 0($t0) # assign new value
25
         nop
26
         jr $ra
27
         nop
28 #-----
29 # Function SHOW_7SEG_RIGHT : turn on/off the 7seg
30 # param[in] $a0 value to shown
31 # remark $t0 changed
32 #-----
33 SHOW 7SEG RIGHT:
34
         li $t0, SEVENSEG_RIGHT # assign port's address
         sb $a0, 0($t0) # assign new value
35
36
         nop
37
          jr $ra
38
         nop
```

Kết quả:



MSSV 20194528

```
li $a0, 0x5B # set value for segments
jal SHOW_7SEG_LEFT # show

In ra số 2:

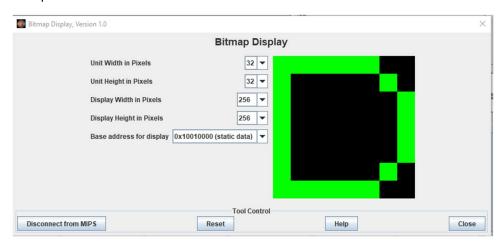
1i $a0, 0x7F # set value for segments
jal SHOW_7SEG_RIGHT # show

In ra số 8:
```

Home Assignment 2 – BITMAP DISPLAY

```
.eqv MONITOR_SCREEN 0x10010000 #Dia chi bat dau cua bo nho man hinh
   .eqv GREEN 0x0000FF00
 2
 3
   .text
 4
           li $k0, MONITOR SCREEN #Nap dia chi bat dau cua man hinh
 5
 6
           li $t0, GREEN
 7
           sw $t0, 0($k0)
           sw $t0, 4($k0)
 8
 9
           sw $t0, 8($k0)
           sw $t0, 12($k0)
10
           sw $t0, 16($k0)
11
12
           sw $t0, 20($k0)
           sw $t0, 32($k0)
13
           sw $t0, 56($k0)
14
15
           sw $t0, 64($k0)
16
           sw $t0, 92($k0)
            sw $t0, 96($k0)
17
            sw $t0, 124($k0)
18
            sw $t0, 128($k0)
19
            sw $t0, 156($k0)
20
           sw $t0, 160($k0)
21
           sw $t0, 188($k0)
22
23
            sw $t0, 192($k0)
24
            sw $t0, 216($k0)
25
              sw $t0, 224($k0)
              sw $t0, 228($k0)
26
27
              sw $t0, 232($k0)
              sw $t0, 236($k0)
28
              sw $t0, 240($k0)
29
30
              sw $t0, 244($k0)
31
              nop
```

Kết quả:



Output: chữ D (Đỗ Hải Dương)