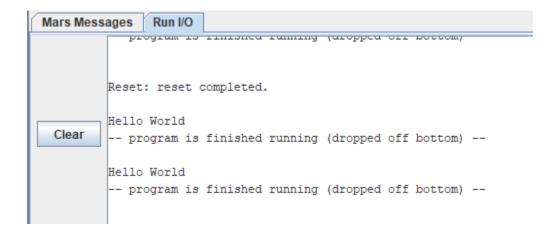
Assignment 1:

Bkpt	Address	Code	Basic					Source
	0x00400000	0x24020004	addiu \$2,\$0,0x00000004	5:	li	\$v0,	4	
	0x00400004	0x3c011001	lui \$1,0x00001001	6:	la	\$a0,	test	
	0x00400008	0x34240000	ori \$4,\$1,0x00000000					
	0x0040000c	0x0000000c	syscall	7:	sys	call		

Data Segment													
Address	Value (+0)	Value (+4)	Value (+8)	Value (+c)									
0x10010000	1 1 e H	o ₩ o	\0 d l r	\0 \0 \0 \0									
0x10010020	\0 \0 \0 \0	\0 \0 \0 \0	\0 \0 \0 \0	\0 \0 \0 \0									



```
Assignment 2:
.data
test: .asciiz "The sum of "
test1: .asciiz " and "
test2: .asciiz " is "
.text
       # Gan s0,s1
       li
              $s0,8
              $s1, 7
       li
       # In "The sum of"
              $v0, 4
       li
              $a0, test
       la
syscall
       #In s0
       li
              $v0, 1
              $a0, 0($s0)
       la
syscall
       #In "and"
              $v0, 4
       li
              $a0, test1
       la
syscall
       #In s1
       li
              $v0, 1
              $a0, 0($s1)
       la
syscall
       # In "is"
```

-- program is finished running (dropped off bottom) --

The sum of 8 and 7 is 15

Assignment 3:

```
ass6.asm
          mips2.asm ass2.asm mips4.asm*
 ass1.asm
                                         ass4.asm
   .data
2 x: .space 32
3 y: .asciiz "Hello World 123"
5 .text
 6 strcpy:
7
            add $s0, $zero, $zero
            la $a1, y #Dia chi y
8
9
            la $aO, x #Dia chi x
10
11 Li:
                    $t1, $s0, $a1
12
            add
                    $t2, O($t1)
13
            1b
14
            add
                    $t3, $s0, $a0
15
                    $t2, O($t3)
            sb
                    $t2, $zero, end
16
           beq
17
            nop
18
            addi
                   $sO, $sO, 1
19
            j
                   Li
20
            nop
            end:
21
22 #in
                    $v0, 4
23
            1i
24
                    $a0, x
            la
25
            syscall
```

```
Hello World 123
-- program is finished running (dropped off bottom) --
```

```
Assignment 4:
.data
string: .space 50
                   .asciiz "Nhap xau: "
Mess1:
                   .asciiz "Do dai xau la: "
Mess2:
.text
main:
get_string:
             #todo
             #Nhap xau
                   $v0,54
                   $a0,Mess1
             la
                   $a1, string
             la
                   $a2,50
             la
             syscall
get_length:
                   $a0,string
                                 # $a0=address(string[0])
             la
             add
                   $t0, $zero,$zero
                                       # $t0=i=0
check_char:
                   $t1, $a0, $t0 # $t1=$a0+$t0
             add
             lb
                   $t2, 0($t1)
                                 # $t2=string[i]
             beq $t2, $zero,end_of_str  # is null char?
             addi $t0, $t0, 1
                                       # $t0=$t0+1->i=i+1
             j
                   check_char
end_of_str:
end_of_get_length:
```

print_length:

#In chieu dai

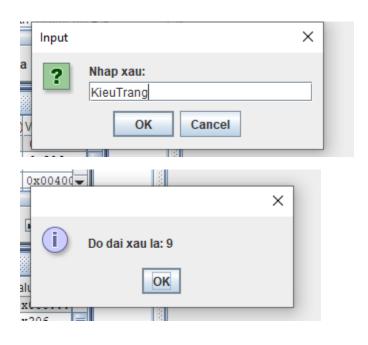
addi \$t0, \$t0, -1

li \$v0, 56

la \$a0, Mess2

la \$a1, 0(\$t0)

syscall



Assignment 5:

```
.data
string: .space 50
enter: .asciiz "\n"
Message1: .asciiz "Nhap vao xau: "
str: .space 20
.text
main:
#in thong bao nhap vao xau
  li $v0, 4
   la $a0, Message1
   la $s2,enter
   syscall
  add $s0,$zero,$zero
                            #$s0=i=0
  la $a3,string #a0 = address of var string
  li $1,19 #max_string = 20, bat dau = 0.
loop:
  li $v0, 12
   syscall
   add $t3,$s0,$a3
   bge $s0,$s1,end_loop #length>20 thi endloop
   beq $v0,'\n',end_loop # is enter char?
   sb $v0,0($t3) # save entered char into string a0
  nop
     addi $s0,$s0,1 #index=length +=1
  j loop
end_loop:
start:
beq $s0,$zero,end2
addi $s0,$s0,-1
add $t4,$a3,$s0
lbu $a0,0($t4)
li $v0, 11
syscall
j start
end2:
```

```
Nhap vao xau: Trangefff
fffegnarT
-- program is finished running (dropped off bottom) --
```