

Edit Execute

Bkpt	Address	Code	Basic	Source
	0x00400000	0x3c011001	lui \$1,0x00001001	5: la \$a0, message #Dua dia chi bien message vao thanh ghi a0
	0x00400004	0x34240004	ori \$4,\$1,0x00000004	
	0x00400008	0x24020004	addiu \$2,\$0,0x00000004	6: li \$v0, 4 #Gan thanh ghi \$v0 = 4
	0x0040000c	0x0000000c	syscall	7: syscall #doi ham so v0, ham so 4, la ham print
	0x00400010	0x20090002	addi \$9,\$0,0x00000002	9: addi \$t1,\$zero,2 #Thanh ghi \$t1 = 2
	0x00400014	0x200a0003	addi \$10,\$0,0x00000003	10: addi \$t2,\$zero,3 #Thanh ghi \$t2 = 3
	0x00400018	0x012a4020	add \$8,\$9,\$10	11: add \$t0, \$t1, \$t2 #Thanh ghi \$t0 = \$t1 + \$t2

Address	Value (+0)	Value (+4)	Value (+8)	Value (+c)	Value (+10)	Value (+14)	Value (+18)	Value (+1c)
0x10010000	m a h p	c u d	y u e	1 0 2	8 5 4 9	1 0 1 0 1 0 8	1 0 1 0 1 0
0x10010020	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0
0x10010040	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0
0x10010060	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0
0x10010080	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0
0x100100a0	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0
0x100100c0	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0
0x100100e0	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0
0x10010100	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0
0x10010120	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0	1 0 1 0 1 0

Mars Messages Run I/O

```
Pham Duc Huy 20194588
-- program is finished running (dropped off bottom) --
Clear
Pham Duc Huy 20194588
-- program is finished running (dropped off bottom) --
```

Name	Number	Value
\$zero	0	0x00000000
\$at	1	0x10010000
\$v0	2	0x00000004
\$v1	3	0x00000000
\$a0	4	0x10010004
\$a1	5	0x00000000
\$a2	6	0x00000000
\$a3	7	0x00000000
\$t0	8	0x00000005
\$t1	9	0x00000002
\$t2	10	0x00000003
\$t3	11	0x00000000
\$t4	12	0x00000000
\$t5	13	0x00000000
\$t6	14	0x00000000
\$t7	15	0x00000000
\$a0	16	0x00000000
\$a1	17	0x00000000
\$a2	18	0x00000000
\$a3	19	0x00000000
\$a4	20	0x00000000
\$a5	21	0x00000000
\$a6	22	0x00000000
\$a7	23	0x00000000
\$t8	24	0x00000000
\$t9	25	0x00000000
\$k0	26	0x00000000
\$k1	27	0x00000000
\$gp	28	0x10008000
\$fp	29	0x7fffffc0
\$ra	30	0x00000000
\$ra	31	0x00000000
pc		0x0040001c
hi		0x00000000
lo		0x00000000

Edit Execute

```
mips1.asm
1 .data # Vung du lieu, chua cac khai bao bien
2 x: .word 0x01020304 # bien x, khoi tao gia tri
3 message: .asciz "Pham Duc Huy 20194588"
4 .text # Vung lenh, chua cac lenh hop ngu
5 la $a0, message #Dua dia chi bien message vao thanh ghi a0
6 li $v0, 4 #Gan thanh ghi $v0 = 4
7 syscall #Goi ham so v0, ham so 4, la ham print
8
9 addi $t1,$zero,2 #Thanh ghi $t1 = 2
10 addi $t2,$zero,3 #Thanh ghi $t2 = 3
11 add $t0, $t1, $t2 #Thanh ghi $t0 = $t1 + $t2
12
```

Line: 2 Column: 20 Show Line Numbers

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\$t1	9	0x00000002
\$t2	10	0x00000003
\$t3	11	0x00000000
\$t4	12	0x00000000
\$t5	13	0x00000000
\$t6	14	0x00000000
\$t7	15	0x00000000
\$a0	16	0x00000000
\$a1	17	0x00000000
\$a2	18	0x00000000
\$a3	19	0x00000000
\$a4	20	0x00000000
\$a5	21	0x00000000
\$a6	22	0x00000000
\$a7	23	0x00000000
\$t8	24	0x00000000
\$t9	25	0x00000000
\$k0	26	0x00000000
\$k1	27	0x00000000
\$gp	28	0x10008000
\$fp	29	0x7fffffc0
\$ra	30	0x00000000
\$ra	31	0x00000000
pc		0x0040001c
hi		0x00000000
lo		0x00000000