LAB Report On MIPS Assembly Programming (Basic) (Individual)

Lab Part 1 - Arithmetic

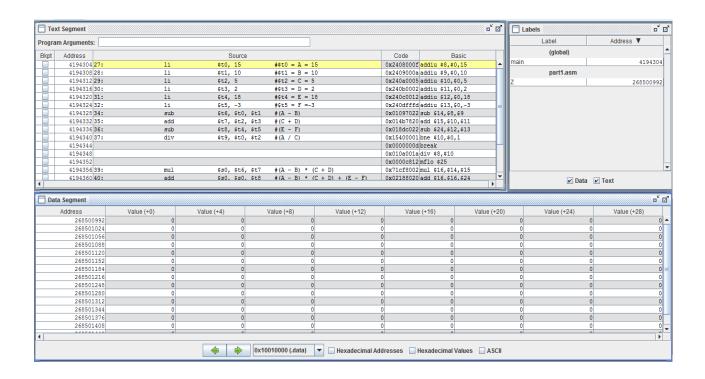
Register Panel

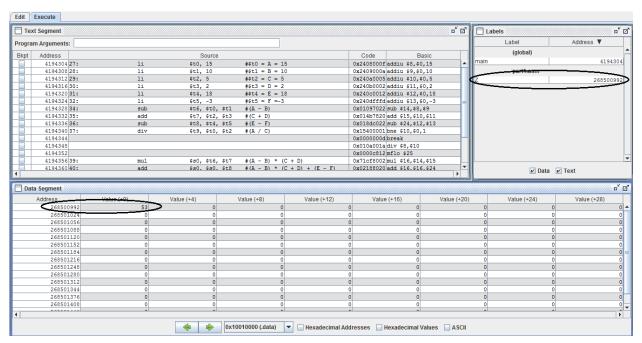
Before Program Execution

Registers Coproc 1	Coproc 0	
Name	Number	Value
\$zero	0	(
\$at	1	
\$v0	2	
\$v1	3	(
\$a0	4	(
\$a1	5	(
\$a2	6	(
\$a3	7	(
\$t0	8	
\$t1	9	
\$t2	10	(
\$t3	11	(
\$t4	12	(
\$t5	13	(
\$t6	14	(
\$t7	15	
\$30	16	(
\$81	17	
\$32	18	
\$33	19	
\$34	20	
\$85	21	(
\$36	22	(
\$37	23	(
\$t8	24	(
\$t9	25	(
\$k0	26	(
\$k1	27	(
\$gp	28	26846822
\$sp	29	214747954
\$fp	30	(
\$ra	31	(
рс		419430
hi		(
10		(

Registers	Coproc 1 C	oproc 0	
1	Name	Number	Value
\$zero		0	
\$at		1	26850099
\$v0		2	1
\$v1		3	
\$a0		4	
\$a1		5	
\$a2		6	
\$ a 3		7	
\$t0		8	1
\$t1		9	1
\$t2		10	
\$t3		11	
\$t4		12	1
\$t5		13	-
\$t6		14	
\$t7		15	
\$80		16	5
\$31		17	
\$32		18	
\$83		19	
\$34		20	
\$85		21	
\$36		22	
\$37		23	
\$t8		24	2
\$t9		25	
\$k0		26	
\$k1		27	
\$gp		28	26846822
\$sp		29	214747954
\$fp		30	
\$ra		31	
рс			419438
hi			
10			3

Before Program Execution





Lab Part 2 - Branches

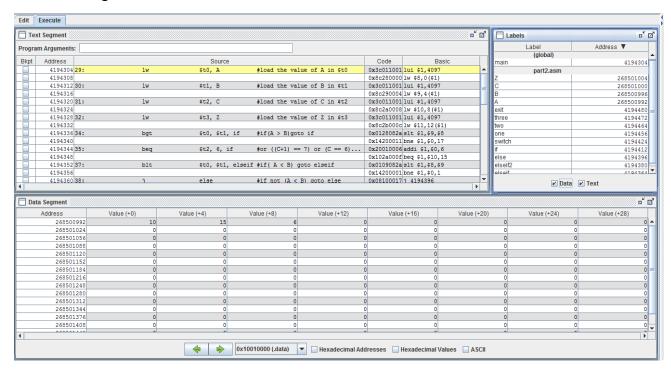
Register Panel

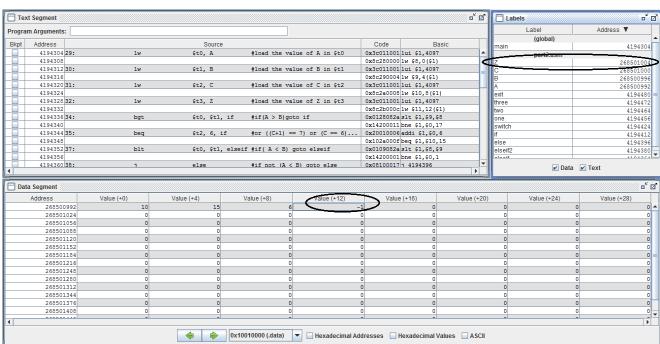
Before Program Execution

Value Value	
1 2 3 4 5 6 7 8 9 9 10 11 12 13 14 15 16 17	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	
3 4 5 6 7 8 9 10 11 12 13 14 15 16	
4 5 6 7 8 9 10 11 12 13 14 15 16	
5 6 7 8 9 10 11 12 13 14 15 16	
6 7 8 9 10 11 12 13 14 15 16	
7 8 9 10 11 12 13 14 15 16	
8 9 10 11 12 13 14 15 16 17	
9 10 11 12 13 14 15 16	
10 11 12 13 14 15 16	
11 12 13 14 15 16	
12 13 14 15 16	
13 14 15 16 17	
14 15 16 17	
15 16 17	
16 17	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28 2684	6822
29 21474	7954
30	
31	
41	9430
	23 24 25 26 27 28 2684 29 21474 30

Registers	Coproc 1 C	oproc 0	
1	lame	Number	Value
\$zero		0	(
\$at		1	268500992
\$v0		2	10
\$v1		3	(
\$a0		4	(
\$a1		5	(
\$ a 2		6	(
\$a3		7	(
\$t0		8	10
\$t1		9	15
\$t2		10	6
\$t3		11	-1
\$t4		12	(
\$t5		13	(
\$t6		14	(
\$t7		15	(
\$30		16	(
\$s1		17	(
\$ 3 2		18	(
\$83		19	(
\$34		20	(
\$85		21	(
\$36		22	(
\$37		23	(
\$t8		24	(
\$t9		25	(
\$ k 0		26	(
\$k1		27	(
\$gp		28	268468224
\$sp		29	2147479548
\$fp		30	(
\$ra		31	(
рс			4194496
hi			(
lo			(

Before Program Execution

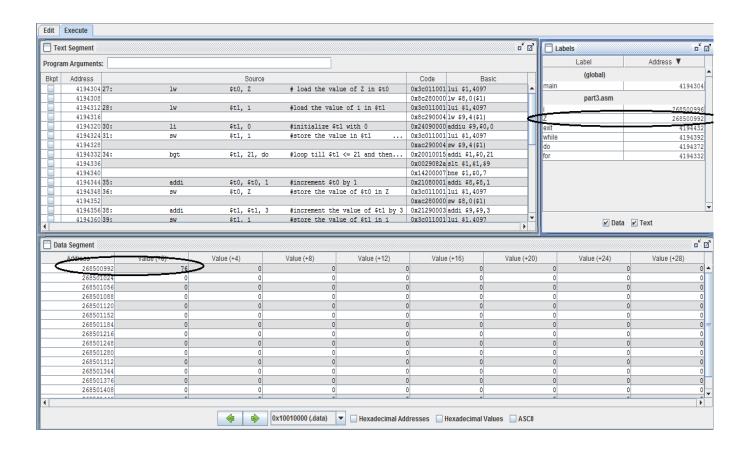




Lab Part 3 – Loops

Register Panel

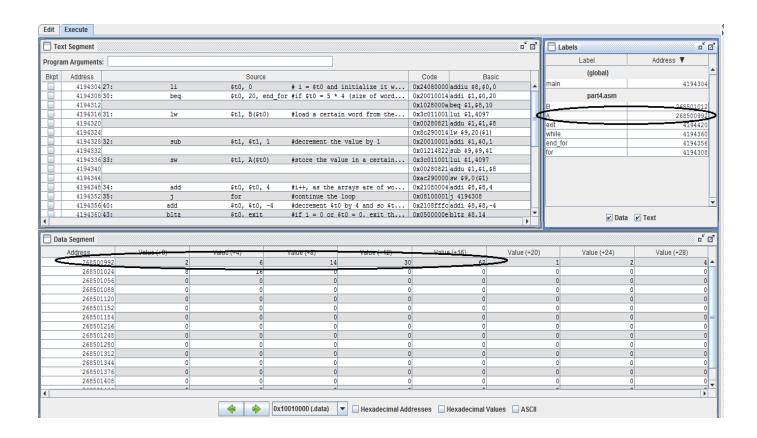
oproc 0	
Number	Value
0	(
1	1
2	10
3	(
4	(
5	(
6	
7	
8	7:
9	(
10	(
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	26846822
29	214747954
30	
31	
	419444
	0 1 2 2 3 3 3 4 4 5 5 6 6 7 7 8 8 9 9 10 10 11 12 12 13 14 15 16 16 17 18 18 19 20 21 22 23 24 22 23 24 25 26 27 28 29 30



Lab Part 4 – Arrays

Register Panel

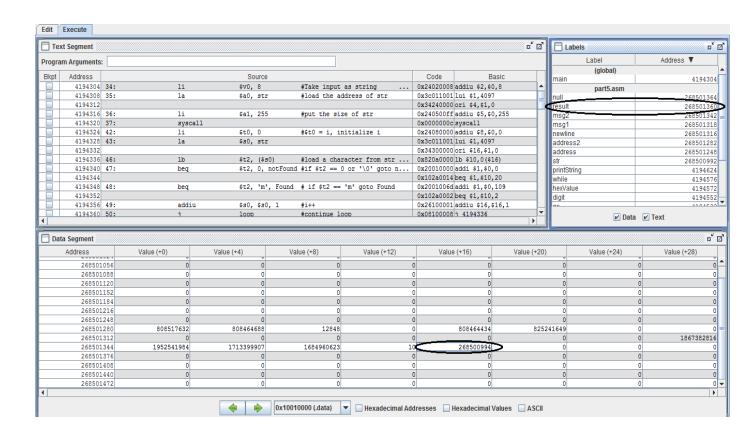
Name	Number	Value
\$zero	0	
\$at	1	
\$v0	2	1
\$v1	3	
\$ a 0	4	
\$a1	5	
\$a2	6	
\$a3	7	
\$t0	8	-
\$t1	9	
\$t2	10	
\$t3	11	
\$t4	12	
\$t5	13	
\$t6	14	
\$t7	15	
\$30	16	
\$31	17	
\$32	18	
\$33	19	
\$34	20	
\$85	21	
\$36	22	
\$37	23	
\$t8	24	
\$t9	25	
\$k0	26	
\$k1	27	
\$gp	28	26846822
\$sp	29	214747954
\$fp	30	
\$ra	31	
рс		419442
hi		
lo		



Lab Part 5 – I/O, Loops and Arrays

Memory Panel

Address of result and its value (address of the character 'm')



Location of the character 'm'

