

# Assessment Module-5

Rana, Karan

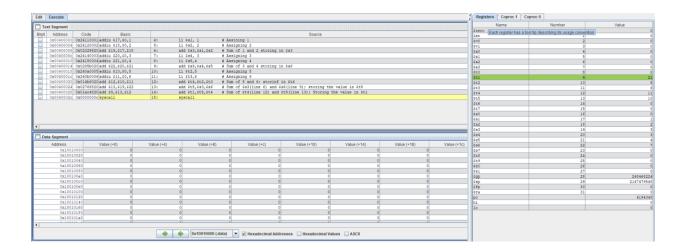
CSIT\_230SP21

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## **Problem 1:**

Write a MIPS Assembly program to ADD the numbers: 1, 2, 3, 4, 5, 6 (as in ex-1)

- Use ONLY the instructions: add and li
- The result of the addition (in decimal) should be in register: \$t1



## **Problem 2:**

Write a MIPS Assembly program to ADD the numbers: 1, 2, 3, 4, 5, 6, 7, 8, 9.

- Use ONLY the instructions: add and li
- Use any \$t, \$s registers
- The result of the addition (in decimal) should be in register: \$t0

Registers	Coproc 1 C	oproc 0	
Name		Number	Value
\$zero		0	0
\$at		1	0
\$v0		2	0
\$vl		3	0
\$ <b>a</b> 0		4	0
\$al		5	0
\$a2		6	0
\$a3		7	0
\$t0		8	45
\$t1		9	11
\$t2		10	7
\$t3		11	8
\$t4		12	9
\$t5		13	15
\$t6		14	10
\$t7		15	26
\$80		16	1
\$s1		17	
\$s2		18	2 3
\$83		19	3
\$84		20	4
\$85		21	7
\$86		22	5
\$87		23	6
\$t8		24	36
\$t9		25	0
\$k0		26	0
\$kl		27	0
\$gp		28	268468224
\$sp		29	2147479548
\$fp		30	0
\$ra		31	0
pc			4194372
hi			0
10			0

# **Problem 3:**

Write a MIPS Assembly program to ADD the numbers: 1, 2, 3, 4, 5, 6 (as in ex-2)

- Use ONLY the instructions: addi and li
- The result of the addition (in decimal) should be in register: \$t1

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```
| East | Test |
```

Registers	Coproc 1	Coproc 0		
Name			Number	Value
\$zero			0	0
\$at			1	0
\$v0			2	
\$v1			3	
\$a0			4	
\$al			5	0
\$a2			6	0
\$a3			7	
\$t0			8	
\$t1			9	
\$t2			10	0
\$t3			11	
\$t4			12	
\$t5			13	
\$t6			14	
\$t7			15	
\$80			16	
\$s1			17	1
\$82			18	3
\$83			19	3
\$s4			20	
\$85			21	5
\$86			22	
\$s7			23	
\$t8			24	
\$t9			25	
\$k0			26	
\$k1			27	
\$gp			28	
\$sp			29	
\$fp			30	
şra			31	
pc				4194336
hi				4194000
lo				0

# **Problem 4:**

Write a MIPS Assembly program to ADD the numbers: 1, 2, 3, 4, 5, 6 (as in ex-3)

- $\bullet$  Use ONLY the instructions: addi and li ... and ONLY the register: \$t0
- The result of the addition (in decimal) should be in register: \$t0

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