CMPT-502 HW-5 (M5)

Assembly Language (Just ADD ...)

- 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
 - ullet The result of the addition (in decimal) should be in register: \$t1
- 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
- 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
- 4. Write a MIPS Assembly program to ADD the numbers: 1, 2, 3, 4, 5, 6 (as in ex-3)
 - ullet Use ONLY the instructions: addi and ${f li}$... and ONLY the register: ${f \$t0}$
 - The result of the addition (in decimal) should be in register: \$t0

- ... In the report include a screen—shot of the register (Registers—area) with the result [see next page (Figure 1) the Registers—area]
- ... At the end of each problem clearly state the final result in decimal

.....

- Prepare a report (PDF) taking in to account the following guidelines.
 - 1. Present the problem and the Assembly-Code
 - (a) The programs should be simple and well-documented
 - (b) The programs should be modularized
 - (c) Detailed comments are necessary
 - 2. Indicate if the program runs successfully according to specifications
 - 3. Discuss the result and clearly state the result in decimal.
- How can I submit my software assignment?

The homework–report should **ALL** be written ... using only a word processor (Microsoft WORD, ..., or TEX/IATEX). **Absolutely no handwriting/handgraphing** and **photographing**. Writing the report follow the sample homework given in CAN-VAS (Modules).

- ... Upload the report in PDF to CANVAS
- Late submission policy:
 LATE WORK (assignment) POLICY. You lose 50% each day an assignment is late and after 2 days, it will not be accepted.
- Grading:

Documentation	Excellent (3)	Average (2)	Low (1)
Functionality	Compiles fine (7)	Compiles warnings (4)	Does not Compile (2)
Delivery	On-time (%100)	Next-Day (50%)	After two days (%20)

Registers Coproc 1 Coproc 0				
Name	Number	Value		
\$zero	0	0		
\$at	1	268500992		
\$v0	2	10		
\$vl	3	0		
\$a0	4	1		
\$al	5	0		
\$a2	6	0		
\$a3	7	0		
\$t0	8			
\$tl	9	2 5 3		
\$t2	10	3		
\$t3	11	0		
\$t4	12	4		
\$t5	13	0		
\$t6	14	0		
\$t7	15	0		
\$80	16	1		
\$sl	17	24		
\$s2	18	0		
\$83	19	0		
\$s4	20	0		
\$85	21	0		
\$86	22	0		
\$87	23	0		
\$t8	24	0		
\$t9	25	0		
\$k0	26	0		
\$k1	27	0		
\$gp	28	268468224		
\$sp	29	2147479548		
\$fp	30	0		
\$ra	31	0		
pc		4194472		
hi		0		
lo		24		

Figure 1: Registers—area (MARS) with only decimal values.