

## LAB 1 MIPS Instruction

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CECS341 Section 11

Convert these hexadecimal machine coded MIPS instructions to MIPS MARS assembly language. Answers expressed in binary or decimal or octal will be wrong.

Label: ADDRESS	Hexadecimal Machine Code	MIPS Instruction (use labels where applicable)
<b>LN1: 0x0040 0100</b>	<b><i>0x000d6202</i></b>	srl \$t2,\$t5, 8;
<b>AGAIN: 0x0040 0104</b>	<b><i>0x01364820</i></b>	add \$t1, \$t1, \$s6;
<b>LN2: 0x0040 0108</b>	<b><i>0x15150003</i></b>	bne \$t0, \$s5, 3; 0x0003
<b>LN3: 0x0040 010c</b>	<b><i>0x08100049</i></b>	j 0x100049
<b>LN4: 0x0040 0110</b>	<b><i>0x8d280014</i></b>	lw \$t0, 0x0014, \$t1;
<b>LN5: 0x0040 0114</b>	<b><i>0x00134880</i></b>	sll \$t1, \$s3, 2;
<b>LN6: 0x0040 0118</b>	<b><i>0xad150190</i></b>	sw \$s5 0x0190 \$t0;
<b>NEXT: 0x0040 011c</b>	<b><i>0x0160c02a</i></b>	slt \$t8,\$t3, \$zero;
<b>LN7: 0x0040 0120</b>	<b><i>0x22730001</i></b>	addi \$s3, \$s3;
<b>END: 0x0040 0124</b>	<b><i>0x08100040</i></b>	j 0x0100040;

**DELIVERABLES:**

Submit your Lab1 Assignment to Beacboard by due date. Note that the filename should be in this format Lab3\_<student\_id>\_<lastname>

**Notes:**

- This is an NOT a group assignment
- Keep these lab files as they will be needed for future labs!

Created by Tom Johnson, update by Gayathri Venna and Dr. Jelena Trajkovic (Spring 2021)