605.611 - Foundations of Computer Architecture Assignment 06 - MIPS Machine Code Translation

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- 1. Translate the following MIPS assembly language instructions into machine code.
 - (a) ORI \$TO, \$ZERO, 15
 - (b) ADDI \$T1, \$ZERO, 3
 - (c) ADD \$T1, \$ZERO \$T1
 - (d) SUB \$T2, \$T0, \$S0
 - (e) SLT \$SO, \$T1, \$T3
 - (f) SRA \$T2, \$S2, 2
 - (g) ANDI \$VO, \$ZERO, 1
 - (h) LW \$TO, 4(\$T1)
 - (i) SW T2, 4(\$S1)
- 2. Translate the following MIPS machine code into MIPS assembly language.
 - (a) 0x2010000a
 - (b) 0x34110005
 - (c) 0x012ac022
 - (d) 0x00184082
 - (e) 0x030f9024