Post Lab 5

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https://github.com/u1252010/ECE-6780-u1252010

- 1. The AUTOEND bit causes the master to send a stop condition immediately upon NBYTES transfer completion. You do not want to use it when you want to send a restart condition as you can't, the stop condition will be sent before you can send the restart condition.
- 2. I would write the following:

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a. I2C2->TIMINGR = (0<<28);
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- b. I2C2->TIMINGR = (0x9<<0);
- c. I2C2->TIMINGR = (0x3<<8);
- d. I2C2->TIMINGR = (0x1<<16);
- e. I2C2->TIMINGR = (0x3<<20);
- 3. The enables are the following bits in the I2C_CR1 register:
 - a. TCIE bit 6
 - b. NACKIE bit 4
 - c. TXIE bit 1
 - d. ERRIE bit 7
- 4. $\pm 250, \pm 500, \pm 2000$
- 5. The datasheet says the following:
 - a. SDO = 1 : SAD = 1101011b
 - b. SDO = 0 : SAD = 1101010b