## CMPE 460 Exercise 02 I2C

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Lab Section: 04

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By submitting this report, you attest that you neither have given nor have received any assistance (including writing, collecting data, plotting figures, tables or graphs, or using previous student reports as a reference), and you further acknowledge that giving or receiving such assistance will result in a failing grade for this course.

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## Lab Description

This lab focused on the implementation and demonstration of I2C using an OLED display. The functionality of I2C was demonstrated by transmitting data to the OLED over I2C.

## **Code Description**

In order to use the I2C protocol, first I2C must be setup for use in the micro-controller. While in the reset state, the MSP432 is configured with the necessary register values and clock speed. After initialization, the reset state is released and the I2C can be used. To transmit a value, the I2C transmits the value byte by byte and forcefully stops after the last bit has been transmitted. Once transmission is complete, the I2C is disabled. The functionality of receive was not demonstrated as part of this exercise.

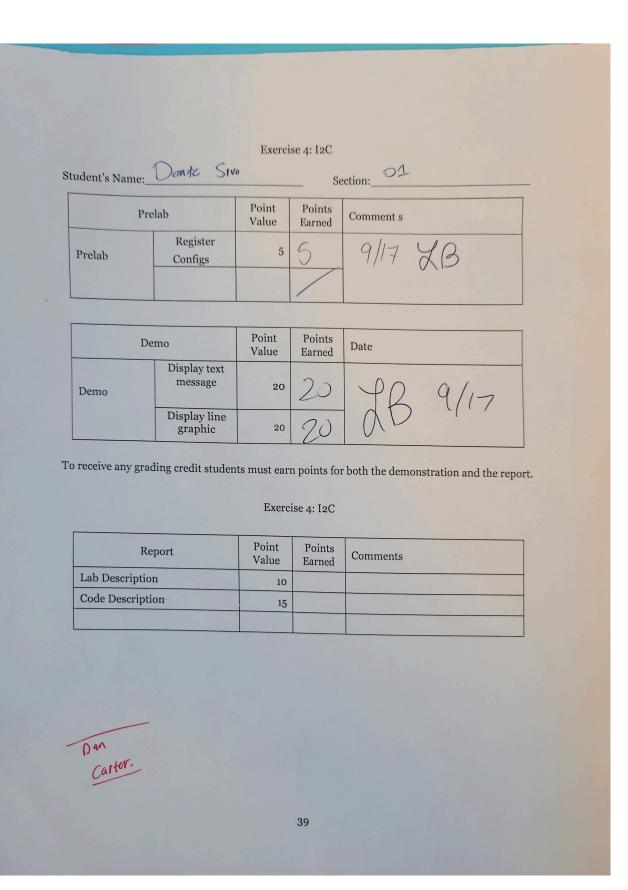


Figure 1: Lab Sign Off