

## Lab 5 UART over Bluetooth/I2C

Name: Chase Lewis

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### Lab Description

This exercise was focused on the initialization and capabilities of the OLED I2C 1306 display. A program was built to properly configure the ports on the microcontroller and display text and a graphic.

### Code Description

The code configures the ports for the OLED I2C 1306 display and set up the microcontroller to use the enhanced universal serial communication interface B (eUSCI\_B) registers which are applicable in I2C. The program allows for communication between the OLED display and the microcontroller. After those were properly initialized, two methods were implemented to assist in the initial display on the OLED display. Once that happens, the OLED display was set to display the three phrases: "Hello World", "How are you?" and "Goodbye." Then a straight line diagonally across the OLED display would appear.

### Exercise 4: I2C

Student's Name: Chase Lewis Section: 2

Prelab		Point Value	Points Earned	Comments
Prelab	Register Configs	5	5	SG 9/17/21

Demo		Point Value	Points Earned	Date
Demo	Display text message	20	20	XB 9/17/21
	Display line graphic	20	20	

To receive any grading credit students must earn points for both the demonstration and the report.

### Exercise 4: I2C

Report	Point Value	Points Earned	Comments
Lab Description	10		
Code Description	15		