**Lab – 3 Datasheet**

**CpE 4010: Sensors, Actuators and Integration**

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| --- | --- |
| Name:Anindita Deb | KSU ID: 000922115 |

**From procedure 3:**

**Insert your picture of your modified circuit here:**

**A circuit board with wires and wires

Description automatically generatedA person using a circuit board

Description automatically generated**

**From procedure 5:**

**Insert your screenshot of your IDE code window here:**

This is the first part: pressing the button lights the red LED, whereas releasing it lights the green LED

A screenshot of a computer program

Description automatically generated

This is the second part: first press of the button lights the red LED for one second—releasing it lights the green LED for one second; the second press of the button lights the red LED for two seconds— releasing it lights the green LED for two seconds; and so on up to five presses and reset the cycle.

A screenshot of a computer program

Description automatically generated

A screenshot of a computer program

Description automatically generated

**From procedure 6:**

**Insert your picture of your running circuit with green LED illuminated here:**

A computer screen with many wires

Description automatically generated

**Conclusions:**

**It was a bit tricky to get the LEDs in the order they needed to be in but overall, an easy fix. I didn’t realize just how long a second really is from how long it was during the 5th iteration of the code. In conclusion, this was a really simple lab with multiple parts to it. It’s good that it builds up from the previous lab.**

**Reading the objectives of the lab I get why it’s sensors and actuators better (at least I can see it visually now). Button click represents a sensed input while the LED is the actuated output.**