**Microprocessor and Computer Architecture Laboratory**

**UE19CS256**

**4th Semester, Academic Year 2020-21**

Date:

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| --- | --- | --- |
| Name: | SRN: | Section |

Week#\_\_\_\_7\_\_\_\_\_\_ Program Number: \_\_\_\_1\_\_

1. **A) Implement a Tinkercad simulation to turn on and off the Arduino’s on-board LED.**

Arduino Code (1).

Output Screen Shot (1)

**B) Implement a Tinkercad simulation to turn on and off an external LED connected to the Arduino board**

Arduino Code (1).

Output Screen Shot (1)

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Week#\_\_\_\_7\_\_\_\_\_\_\_ Program Number: \_\_\_\_2\_\_

**Implement a Tinkercad simulation to alternately turn on and off two external LEDs connected to the Arduino board**

Arduino Code (1).

Output Screen Shot (1)

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Week#\_\_\_\_7\_\_\_\_\_\_\_ Program Number: \_\_\_\_3\_\_

**Implement a Tinkercad simulation to use a pushbutton to control an LED.**

Arduino Code (1).

Output Screen Shot (1)

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Week#\_\_\_\_7\_\_\_\_\_\_\_ Program Number: \_\_\_4\_\_

**Implement a Tinkercad simulation to demonstrate fading of an LED (zero to maximum brightness slowly)**

Arduino Code (1).

Output Screen Shot (1)

**Disclaimer:**

* The programs and output submitted is duly written, verified and executed by me.
* I have not copied from any of my peers nor from the external resource such as internet.
* If found plagiarized, I will abide with the disciplinary action of the University.

Signature:

Name:

SRN:

Section:

Date: