**Microprocessor and Computer Architecture Laboratory**

**UE19CS256**

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

Date:

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| --- | --- | --- |
| Name: Achyut Jagini | SRN:PES2UG19CS013 | Section  A |

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

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

**Graphical user interface

Description automatically generated**

**Graphical user interface, text, application, email

Description automatically generated**

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

**Diagram

Description automatically generated**

**Text

Description automatically generated**

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| Name: | SRN: | Section |

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

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

Diagram, schematic

Description automatically generated

Text

Description automatically generated

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

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

Diagram

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

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

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

**Graphical user interface, diagram

Description automatically generated with medium confidence**