Microprocessor and Computer Architecture Laboratory

UE19CS256

4th Semester, Academic Year 2020-21

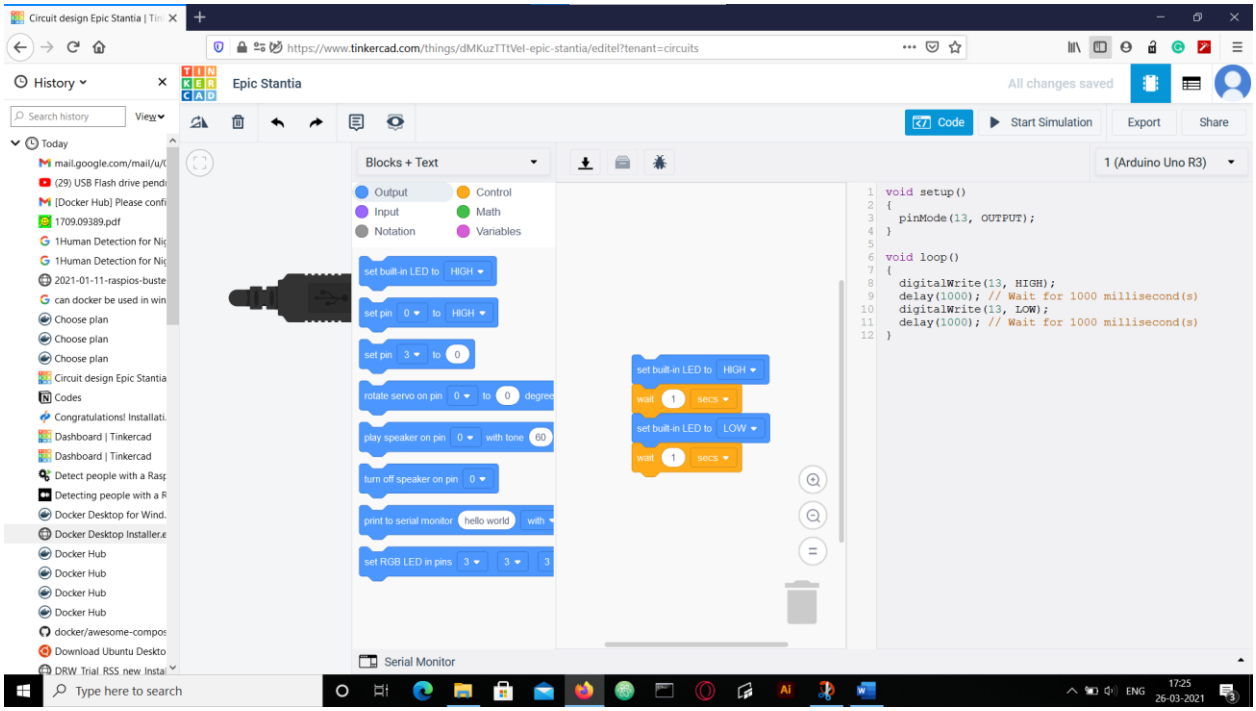
Date:25/03/2021

Name: O P JOY JEFFERSON	SRN: PES2UG19CS270	Section:E

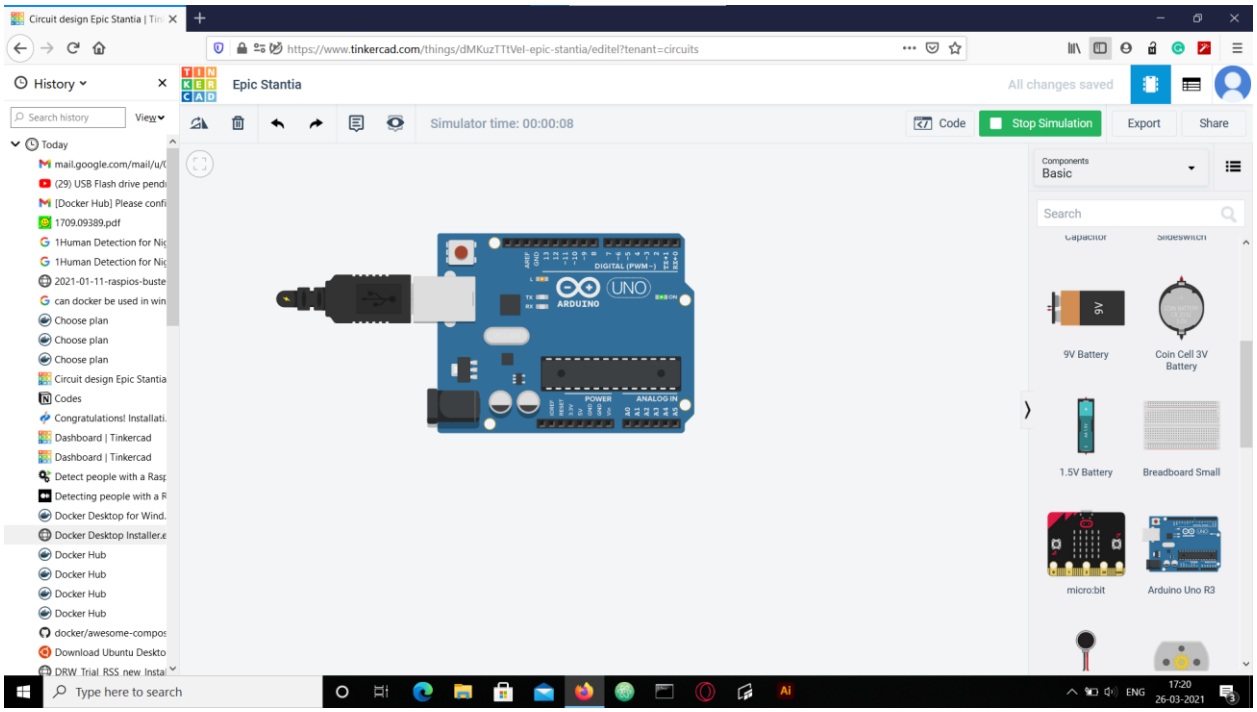
Week#____7_____ Program Number: ____1__

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

Arduino Code (1).

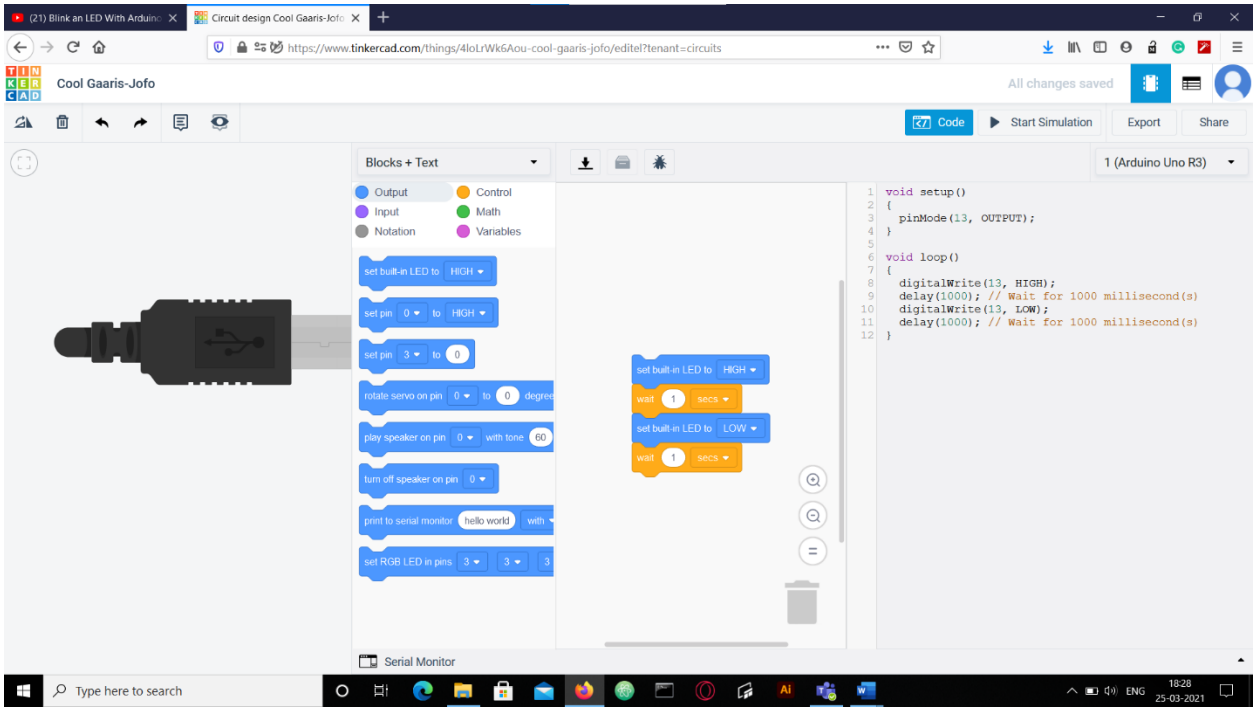


Output Screen Shot (1)

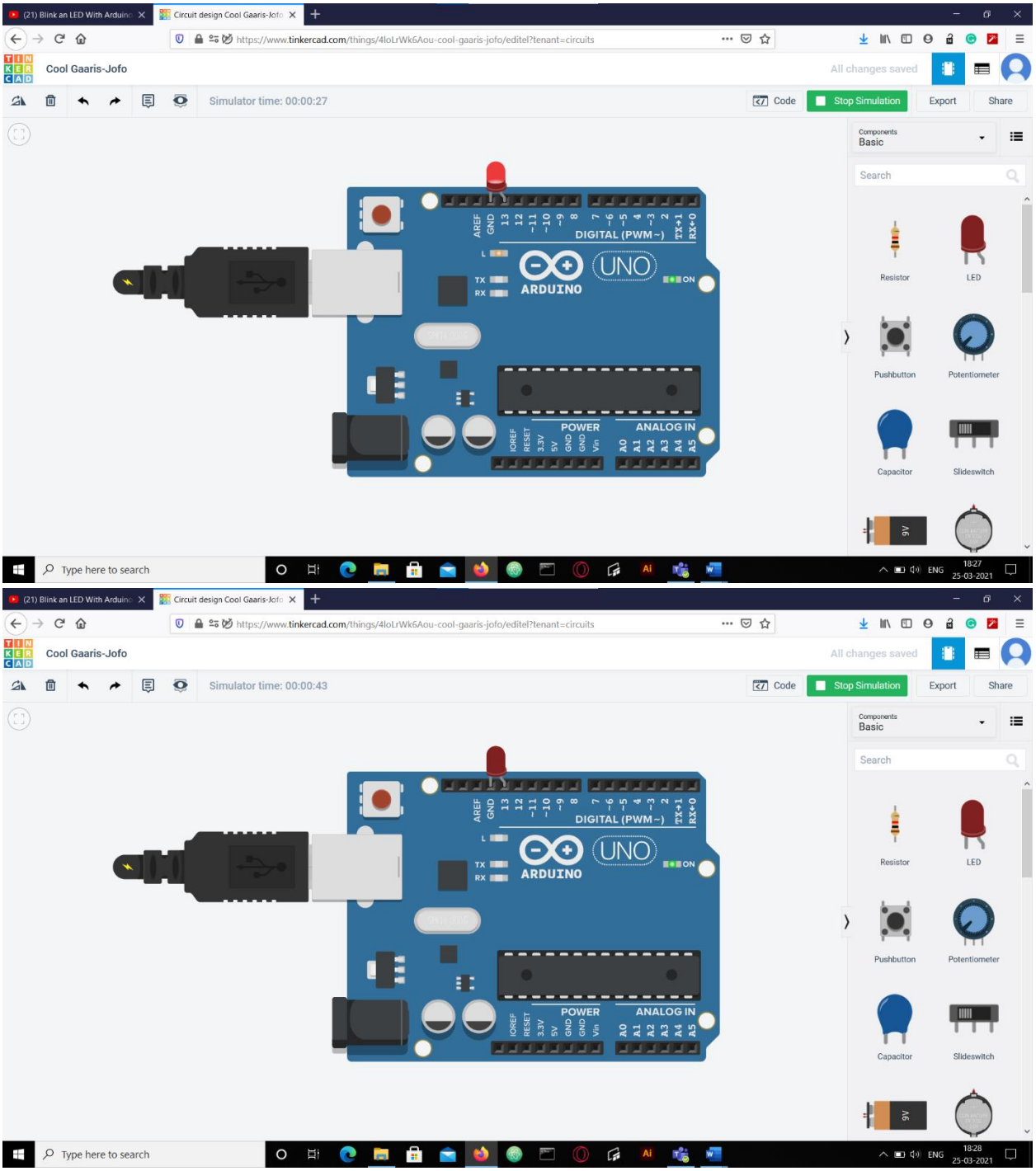


B) Implement a Tinkercad simulation to turn on and off an external LED connected to the Arduino board

Arduino Code (1).



Output Screen Shot (1)



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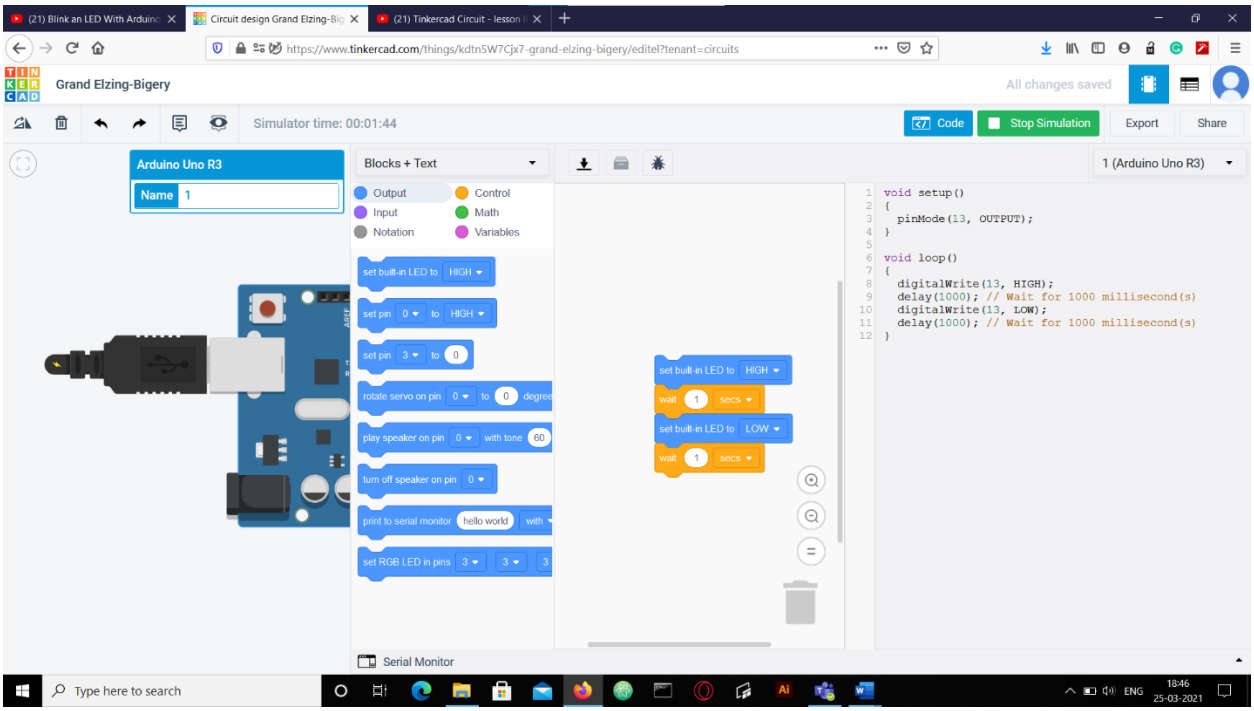
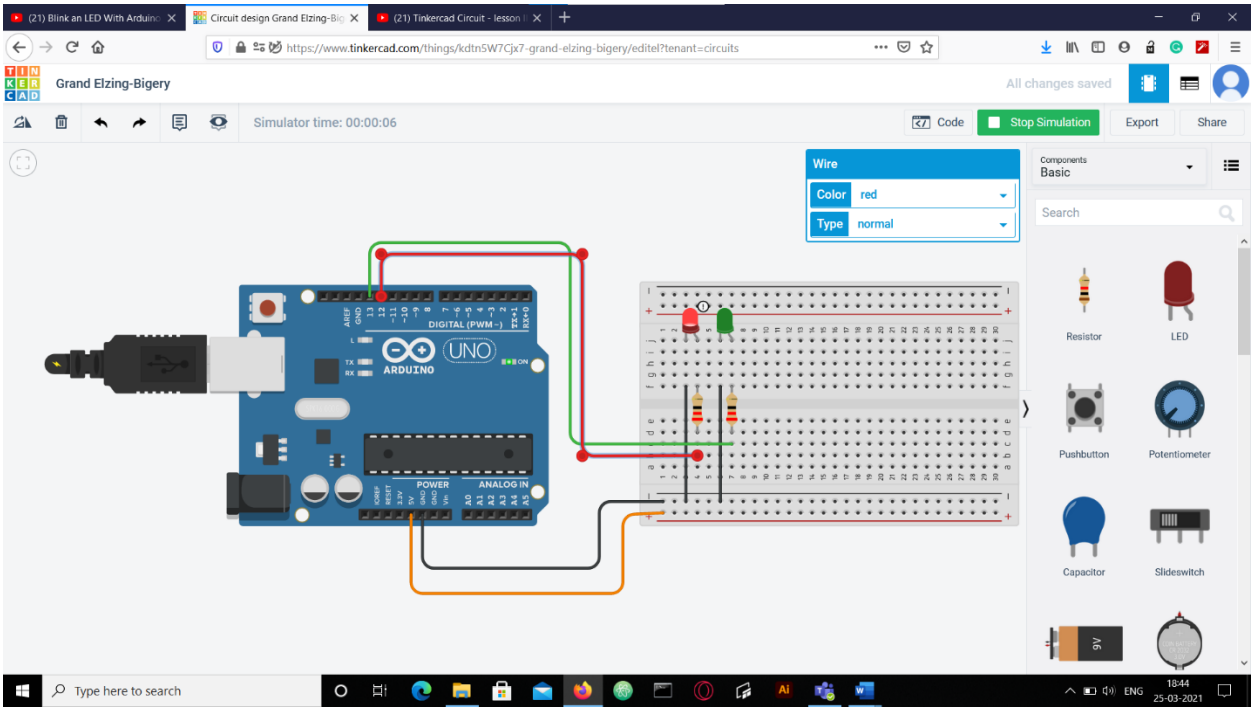
Week#____7_____ Program Number: ____2__

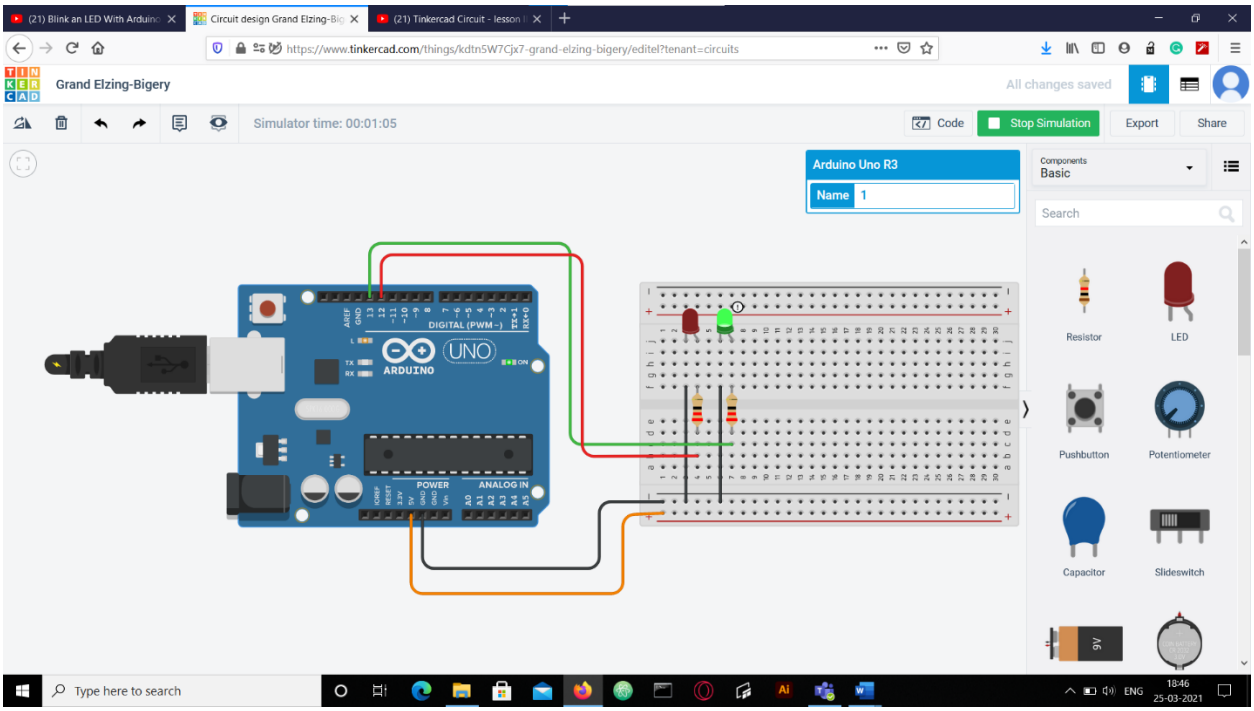
Implement a Tinkercad simulation to alternately turn on and off two external LEDs connected to the Arduino board

Arduino Code (1).



Output Screen Shot (1)




Grand Elzing-Bigery
All changes saved
Simulator time: 00:01:05
Code
Stop Simulation
Export
Share
Arduino Uno R3
Name 1
Components
Basic
Search
Resistor
LED
Pushbutton
Potentiometer
Capacitor
Slideswitch
9V
ARDUINO
UNO
DIGITAL (PWM~)
POWER
ANALOG IN
Type here to search
ENG
18:46
25-03-2021

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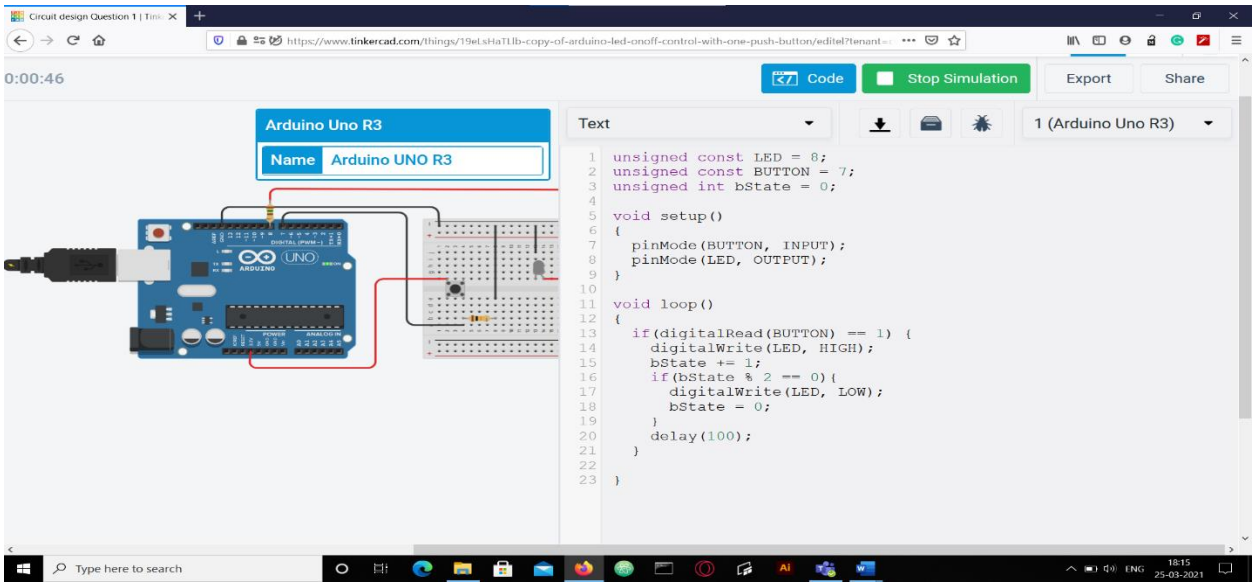
Date:

Name: OP JOY JEFFERSON	SRN:PES2UG19CS270	Section:E

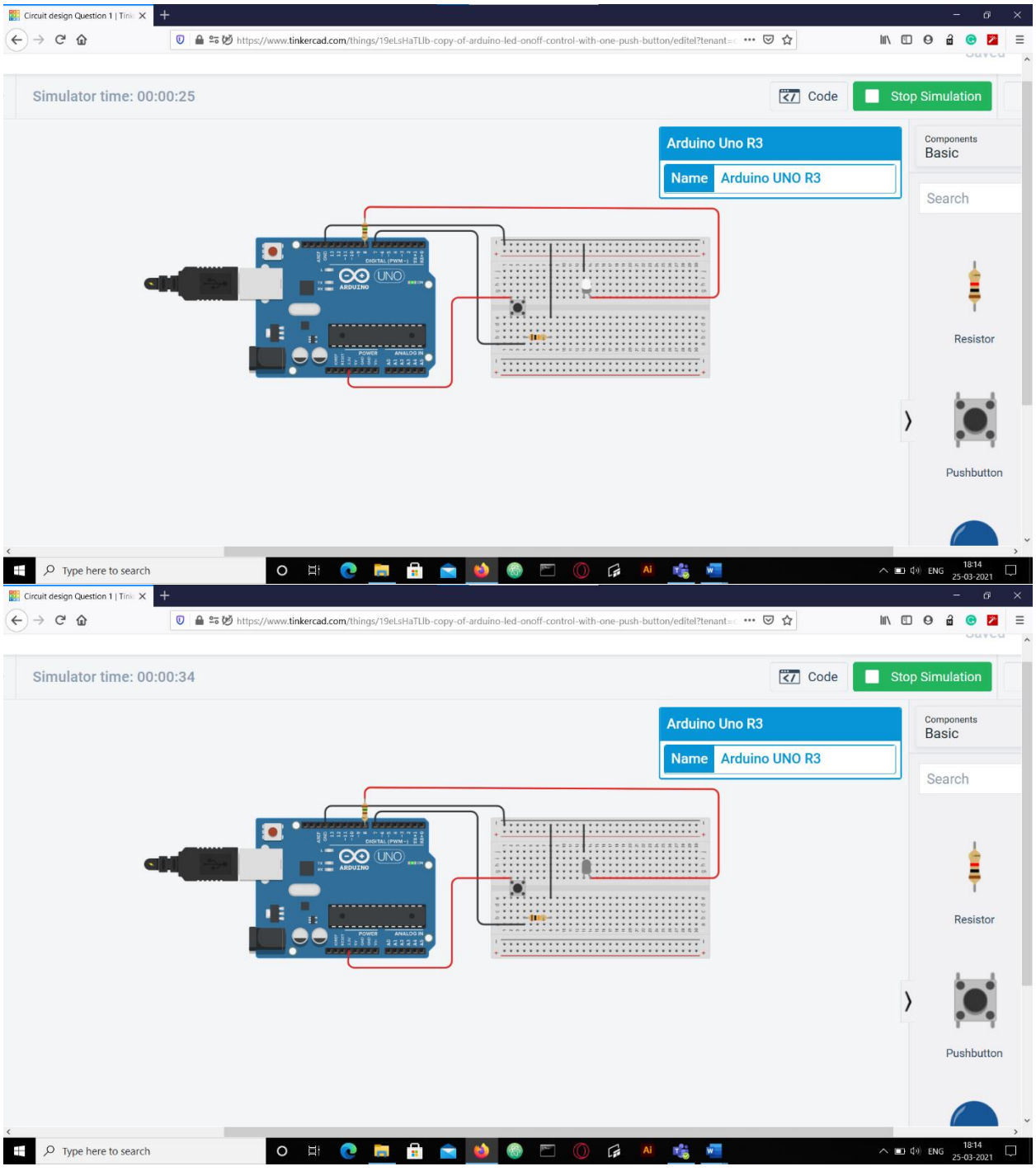
Week#____7_____ Program Number: ____3__

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

Arduino Code (1).



Output Screen Shot (1)



2. Microprocessor and Computer Architecture Laboratory

UE19CS256

4th Semester, Academic Year 2020-21

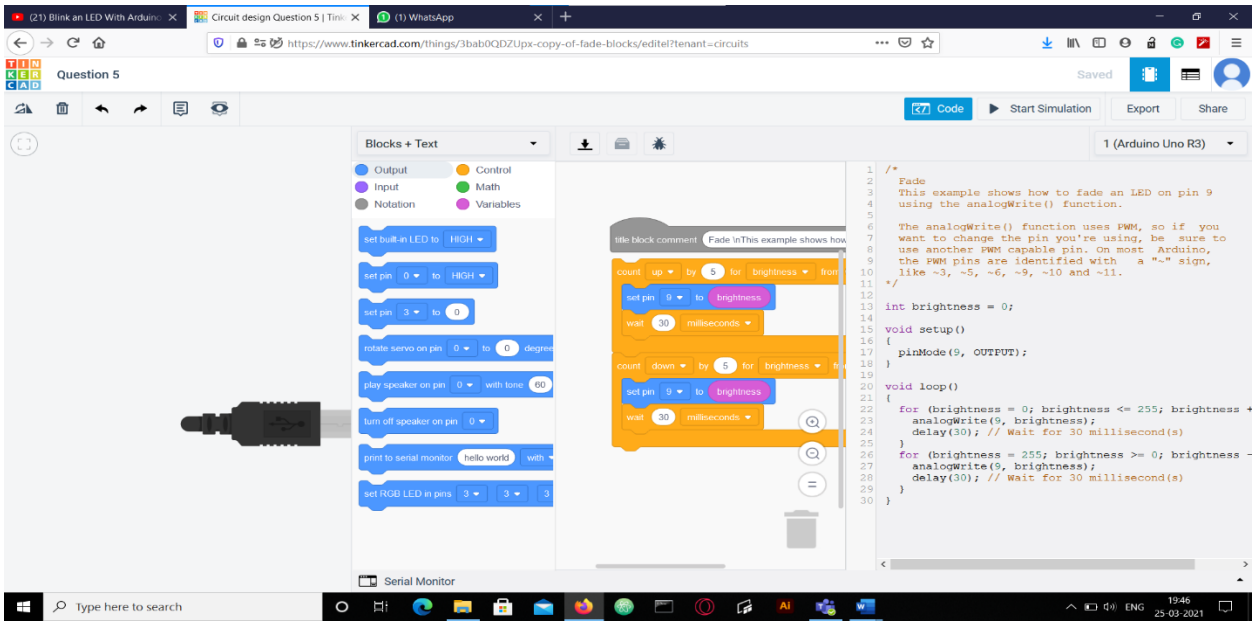
Date:

Name: OP JOY JEFFERSON	SRN: PES2UG19CS270	Section:E

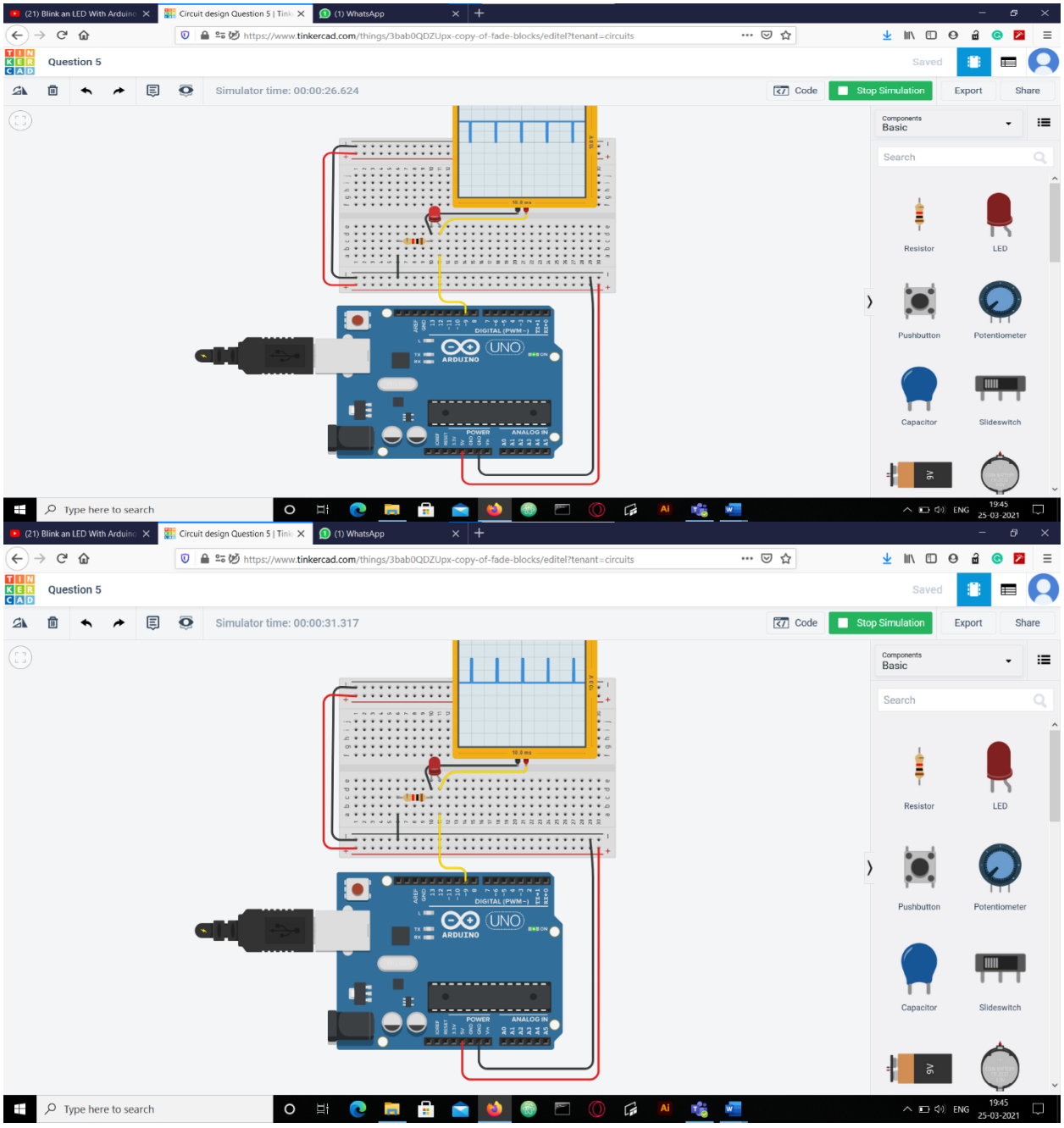
Week#____7_____ Program Number: ___4__

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

Arduino Code (1).



Output Screen Shot (1)


(21) Blink an LED With Arduino
Circuit design Question 5 | Tinkercad
(1) WhatsApp
https://www.tinkercad.com/things/3bab0QDZUpx-copy-of-fade-blocks/editel?tenant=circuits
Question 5
Saved
Simulator time: 00:00:26.624
Code
Stop Simulation
Export
Share
Components
Basic
Search
Resistor
LED
Pushbutton
Potentiometer
Capacitor
Slideswitch
9V
Type here to search
ENG
19:45
25-03-2021
(21) Blink an LED With Arduino
Circuit design Question 5 | Tinkercad
(1) WhatsApp
https://www.tinkercad.com/things/3bab0QDZUpx-copy-of-fade-blocks/editel?tenant=circuits
Question 5
Saved
Simulator time: 00:00:31.317
Code
Stop Simulation
Export
Share
Components
Basic
Search
Resistor
LED
Pushbutton
Potentiometer
Capacitor
Slideswitch
9V
Type here to search
ENG
19:45
25-03-2021

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:JOY
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Section: E
Date:25/03/2021