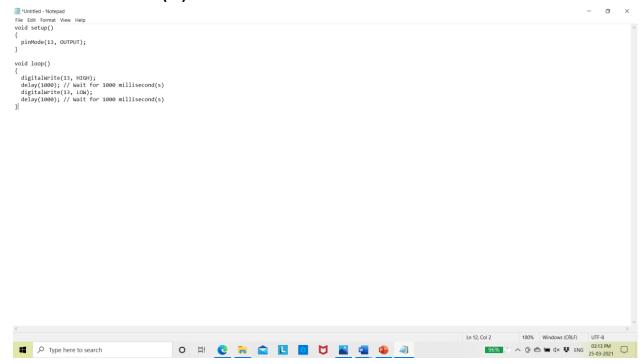
4th Semester, Academic Year 2020-21

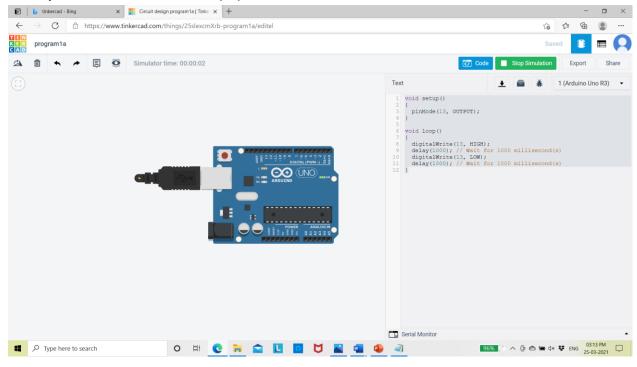
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Name: T.LOHITH SRINIVAS	SRN:	Section
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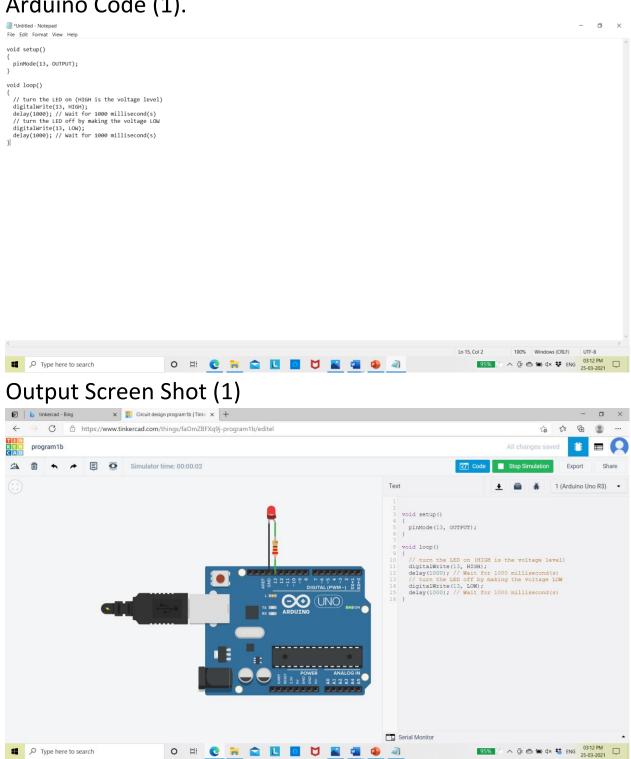
Week#____7___ Program Number: ____1_

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





B) Implement a Tinkercad simulation to turn on and off an external LED connected to the Arduino board Arduino Code (1).



4th Semester, Academic Year 2020-21

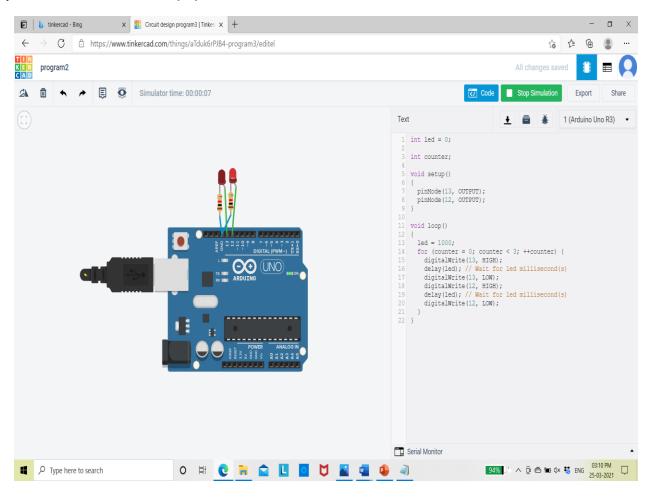
Date:25/03/2021

Name: T.LOHITH SRINIVAS		AS	SRN: PES2UG19CS203	Section
				D
Week#	7	F	Program Number: _	2

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

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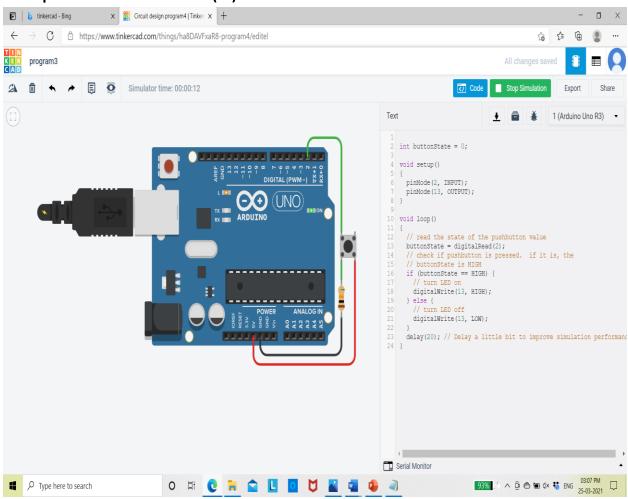
4th Semester, Academic Year 2020-21

Date:25/03/2021

Name: T	LOHITH SRI		RN: ES2UG19CS20		Section	
				D		
Week#	7	Pro	ogram Number	: 3		

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

```
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                                                                                                                                                                                                         - o ×
 File Edit Format View Help
 int buttonState = 0;
 void setup()
pinMode(2, INPUT);
pinMode(13, OUTPUT);
}
 void loop()
// read the state of the pushbutton value buttonState = digitalRead(2); // check if pushbutton is pressed. if it is, the // buttonState is HIGH
   if (buttonState == HIGH) {
   // turn LED on
   digitalWrite(13, HIGH);
}
  } else {
// turn LED off
digitalWrite(13, LOW);
f
delay(20); // Delay a little bit to improve simulation performance
}
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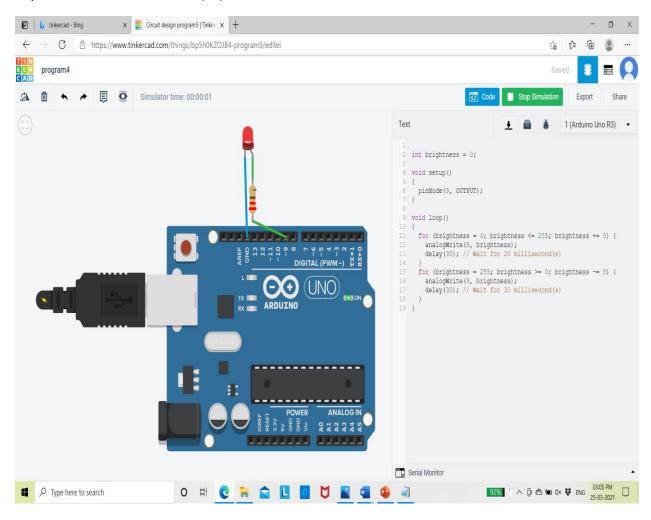
4th Semester, Academic Year 2020-21

Date:25/03/2021

Name: T.	LOHITH SRI	NIVAS	SRN: PES2UG19CS203		Section D
Week#	7		Program Number:	4	

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

```
*Untitled - Notepad
                                                                                                                                                                                                - 🗇 X
File Edit Format View Help
int brightness = 0;
void setup()
 pinMode(9, OUTPUT);
void loop()
  for (brightness = 0; brightness <= 255; brightness += 5) {
   analogWrite(9, brightness);
   delay(30); // Wait for 30 millisecond(s)
   .</pre>
  for (brightness = 255; brightness >= 0; brightness -= 5) {
  analogWrite(9, brightness);
  delay(30); // Wait for 30 millisecond(s)
                                                                                                                                                       Ln 18, Col 2
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                                                                                                                                                             O # C # Q # A
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```



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: T.LOHITH SRINIVAS

Name: T.LOHITH SRINIVAS

SRN: PES2UG19CS203

Section: D

Date: 25/03/2021