NAME:-ADIREDDY PRADEEP

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Experiment No 1

Aim: Control the LED with Arduino Board and tinkercad software.

Objectives: Student should get the knowledge of Arduino Board and control of output device (LED)

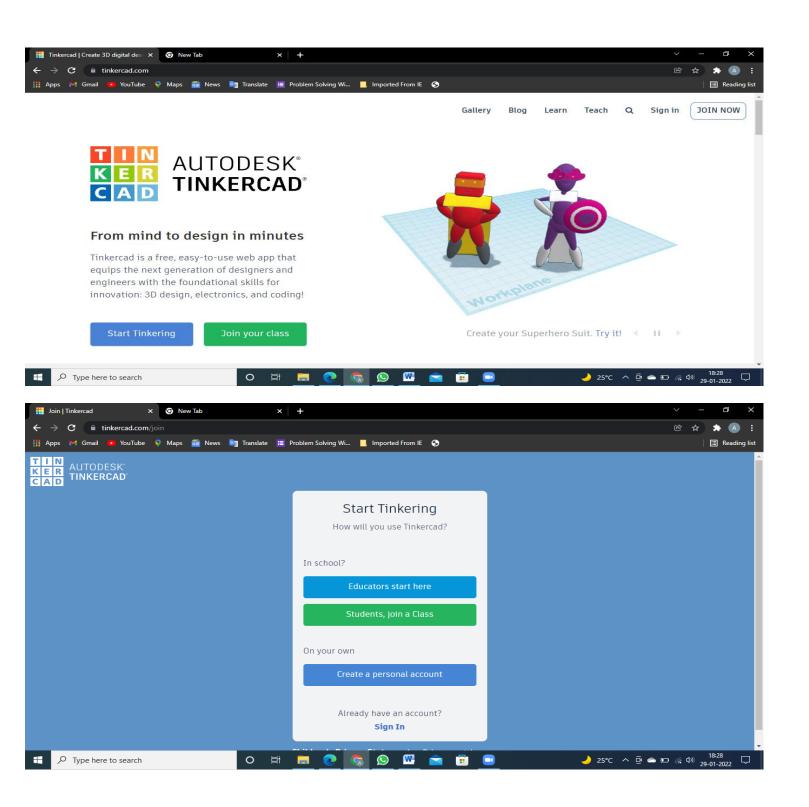
Outcomes: Student will be Write program using Arduino IDE for Blinking LED

Hardware Requirements:

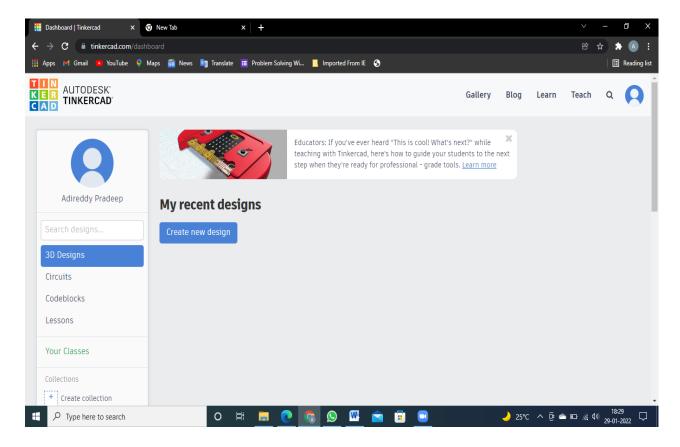
- 1x Breadboard
- 1x Arduino Uno
- 1x LED
- $1x 330 \Omega$ Resistor
- 2x Jumper Wires

Procedure:

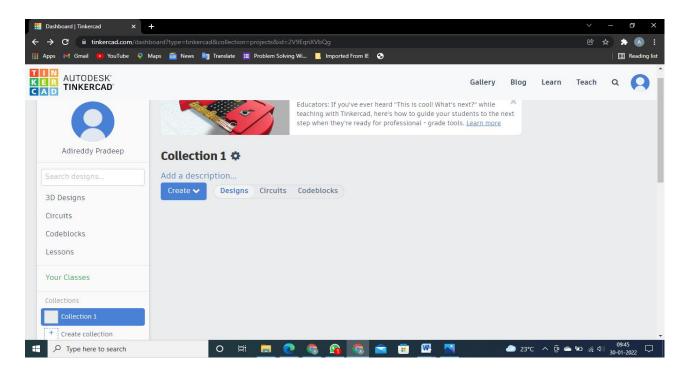
1.create a new account in www.tinkercad.com or login with existing gmail account.



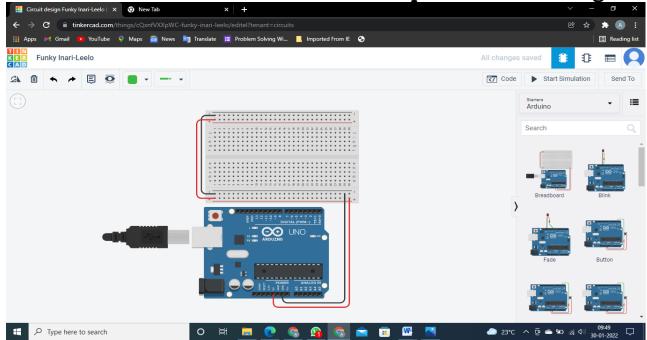
2. click on go to create project and create a new project



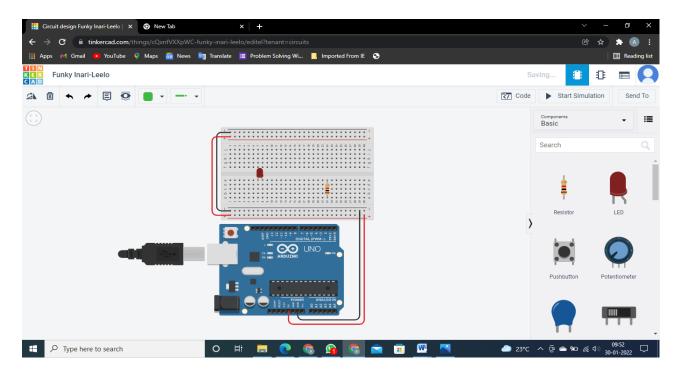
3.go to create menu and select circuit.



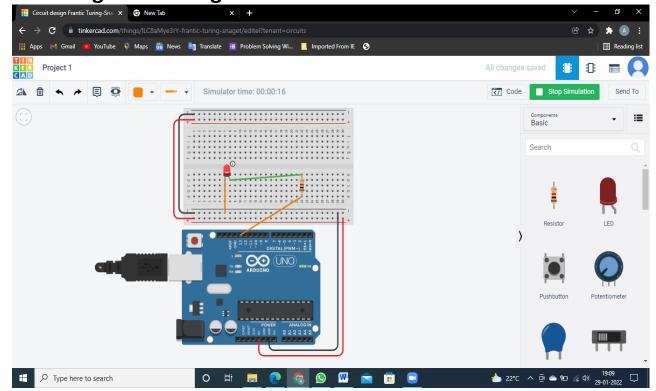
4. Select the Arduino and breadboard and place it in the design area.



5. Place Led and Resistor.



6.Search the component LED and resistor, make connections as shown in above figures. Configure the resistor value as 330ohms.



- 7. Attach the LED to an output pin of the Aurdino D13.
- 8. Once the circuit connection are ready ,programming the aurduino can be done in three ways.
- 1) Using code blocks
- 2) Using text program
- 3) Using code blocks + text programming

