NAME :- M.Govind

## ROLLNO-122010333045

## **EXPERIMENT-1**

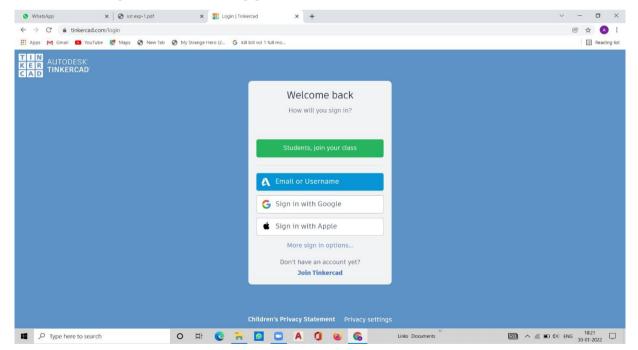
**AIM:-** Control the LED with Arduino Board and tinkercad software.

**OBJECTIVE:-** To get knowledge of Arduino board and control of output device(LED). **OUTCOMES:-** Students will write program using Arduino IDE for Blinking LED. **HARDWARE REQUIREMENT:** 

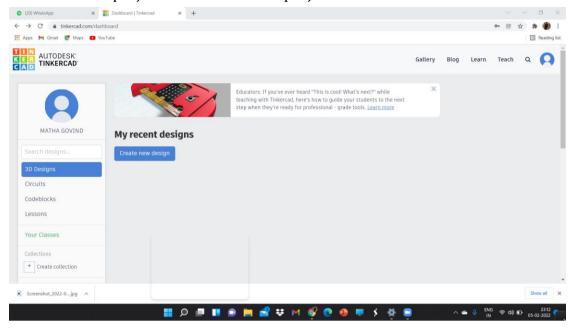
- 1) One Breadboard
- 2) One Arduino Uno
- 3) One LED
- **4)** One  $330\Omega$  Resistor
- **5)** Two Jumper Wires

## **PROCEDURE:-**

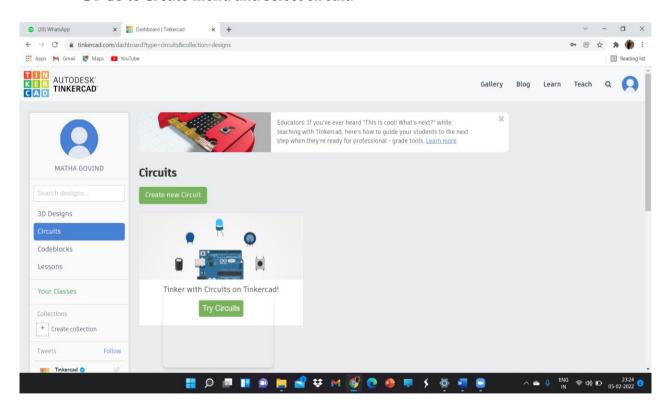
**1.** Login with an existing gmail account or create a new account.



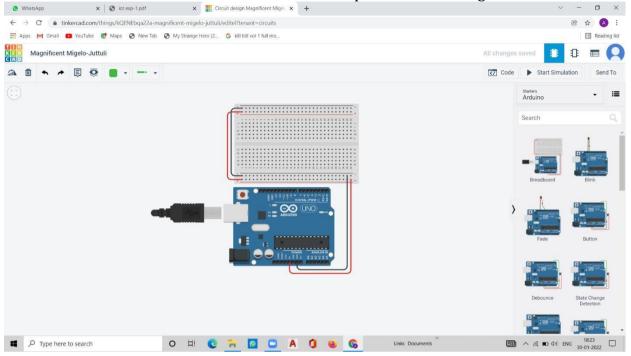
**2.** Click on create project and create a new project



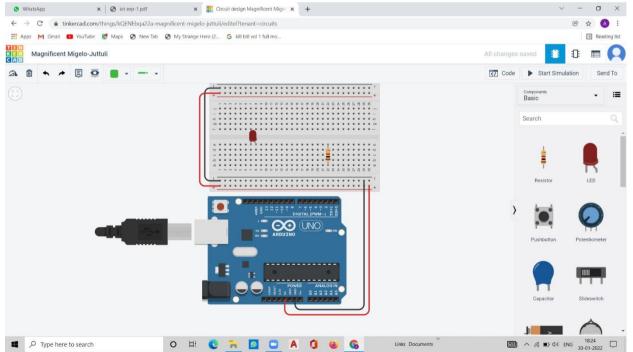
**3.** Go to Create menu and select circuit.



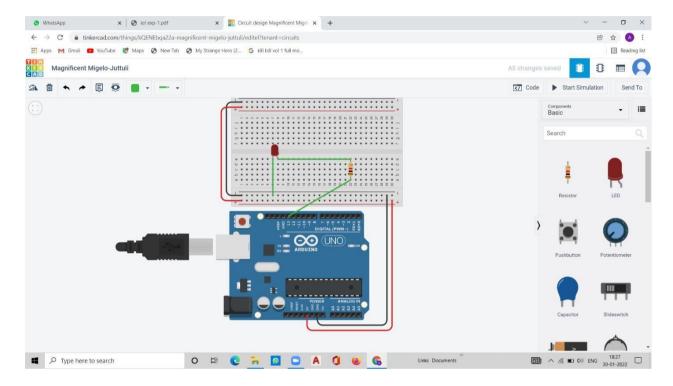
**4.** Select the Arduino and breadboard and place it in the design area.



## **5.** Place Led and Resistor



**6.** Search the component LED and resistor, make connections as shown and resistor value as 330ohms.



- 7. Once circuit connections are ready, programming the Arduino can be done in 3 ways
  - 1) Using code blocks
  - 2) Using text program
  - 3) Using code blocks + text programming

