

**NAME :- JAGAPATHI BABU**

**ROLL NO:- 122010333043**

### 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).

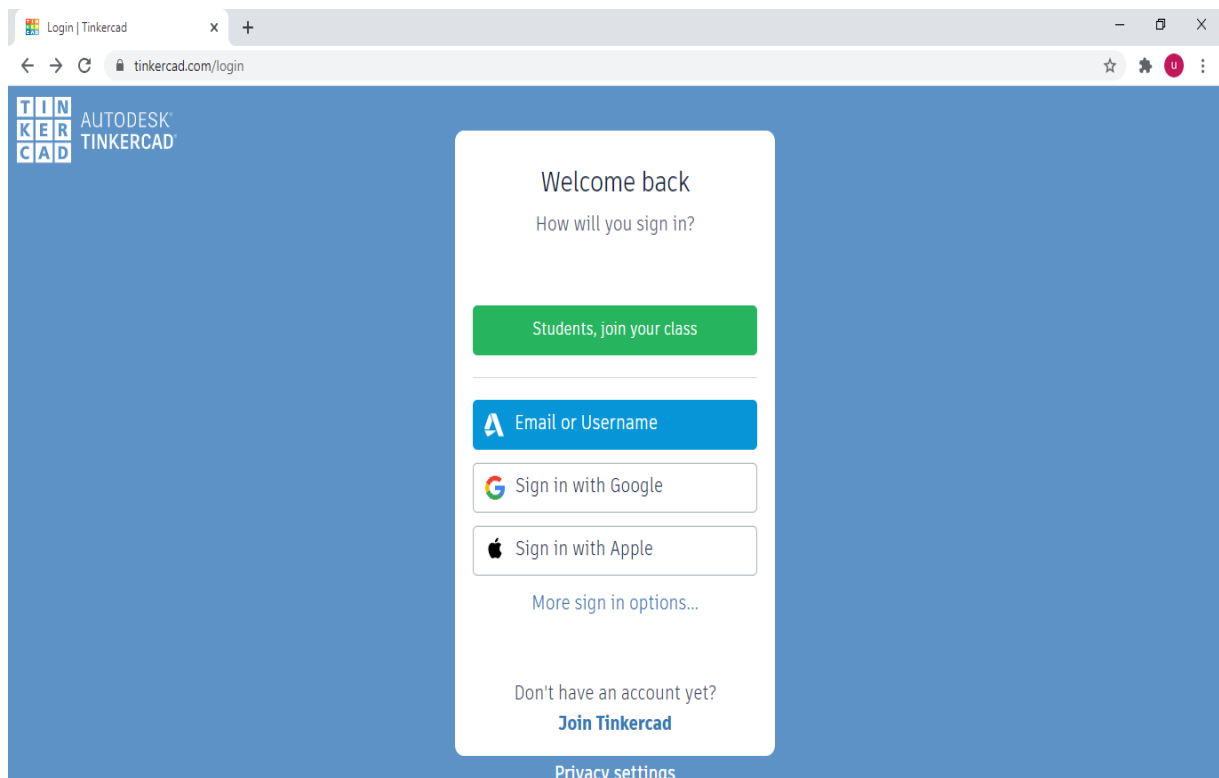
**OUTCOMES:-** Students will write program using Arduino IDE for Blinking LED.

### **HARDWARE REQUIREMENT:**

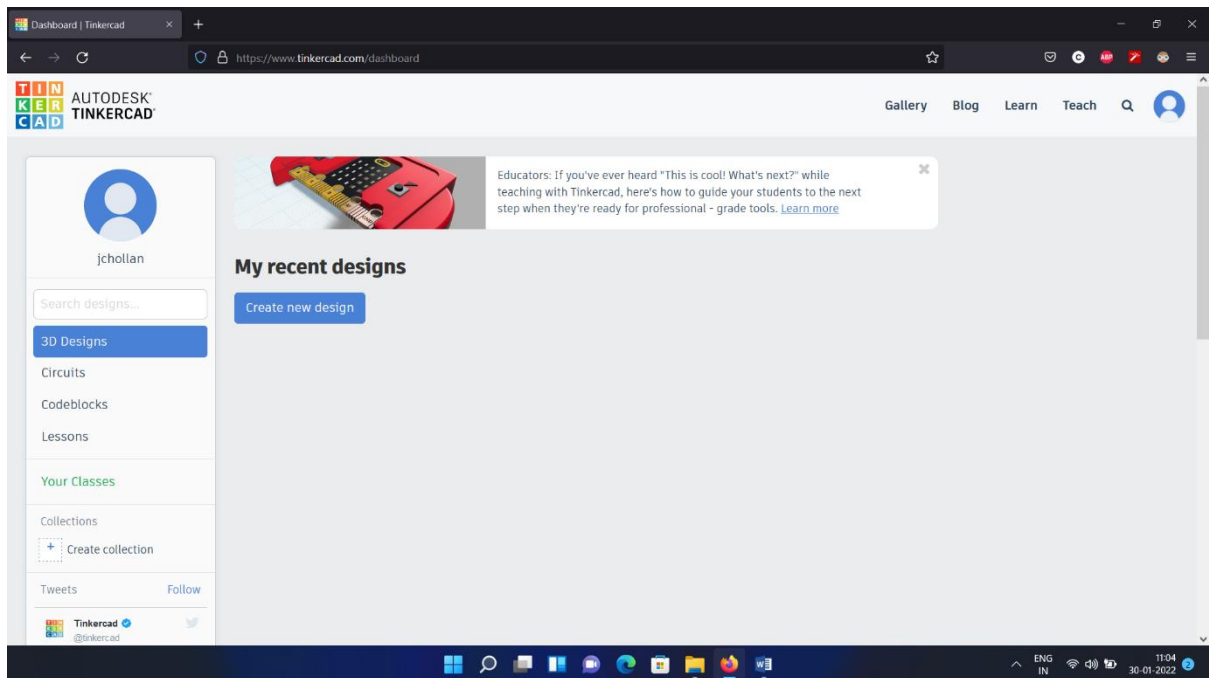
- 1)** One Breadboard
- 2)** One Arduino Uno
- 3)** One LED
- 4)** One 330Ω Resistor
- 5)** Two Jumper Wires

### **PROCEDURE:-**

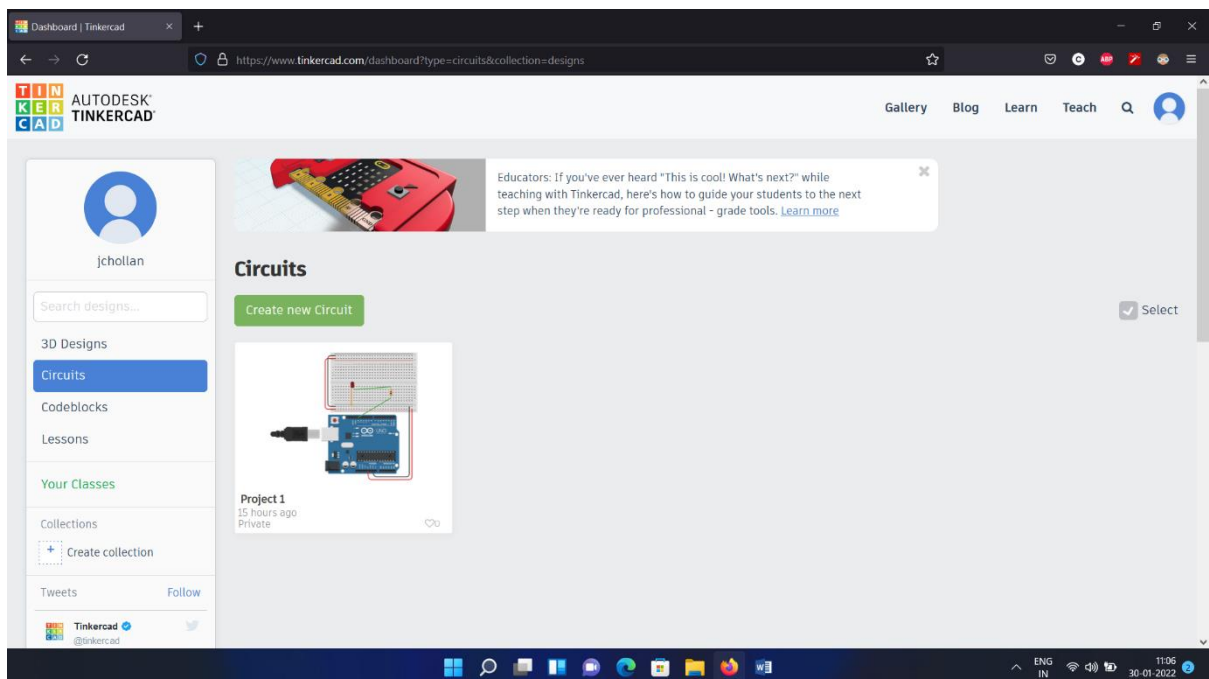
- 1.** Login with an existing gmail account or create a new account.



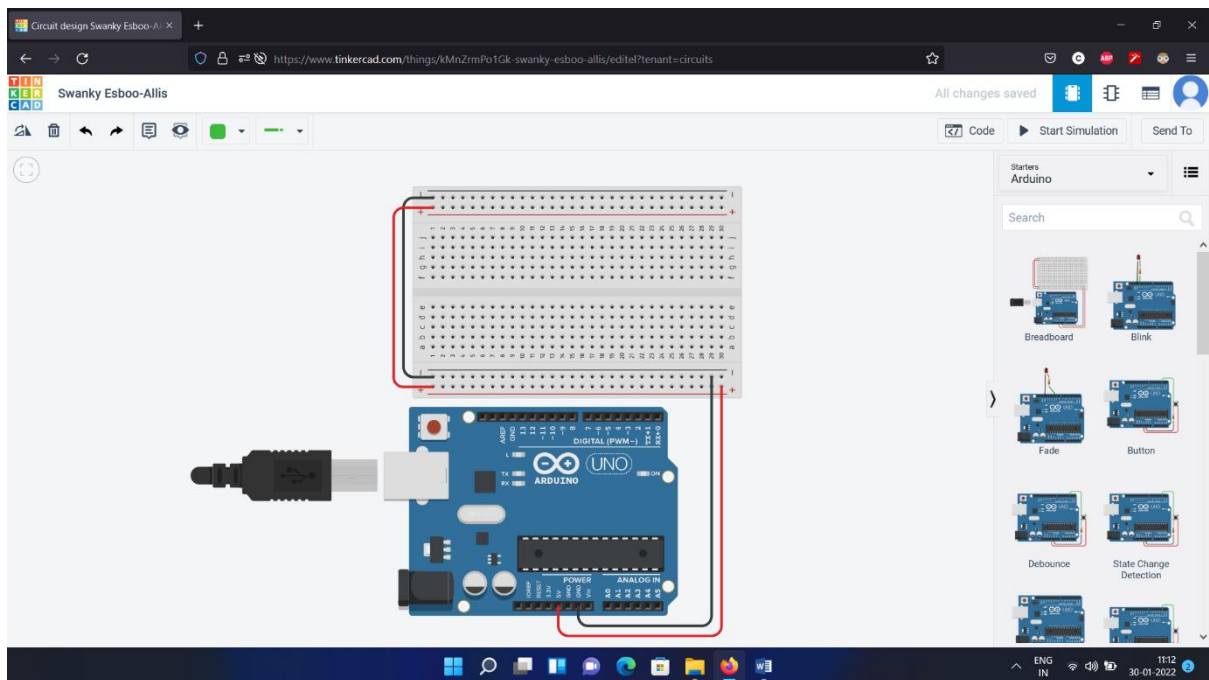
## 2. Click on create project and create a new project



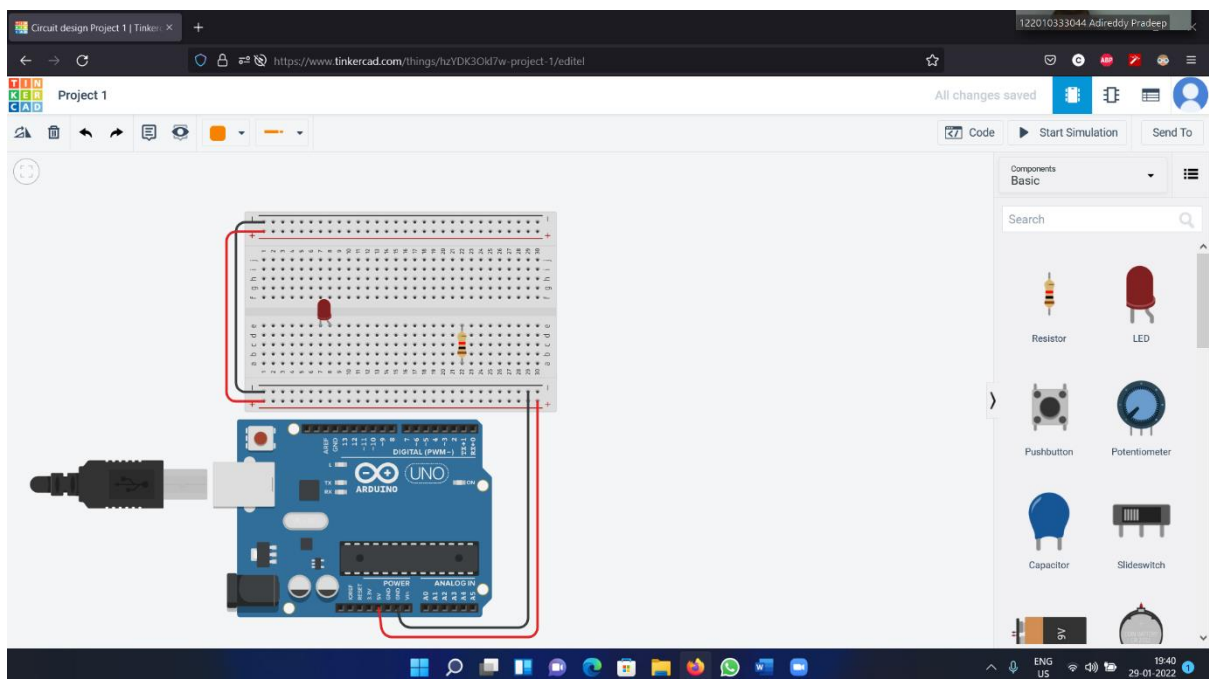
## 3. Go to Create menu and select circuit.



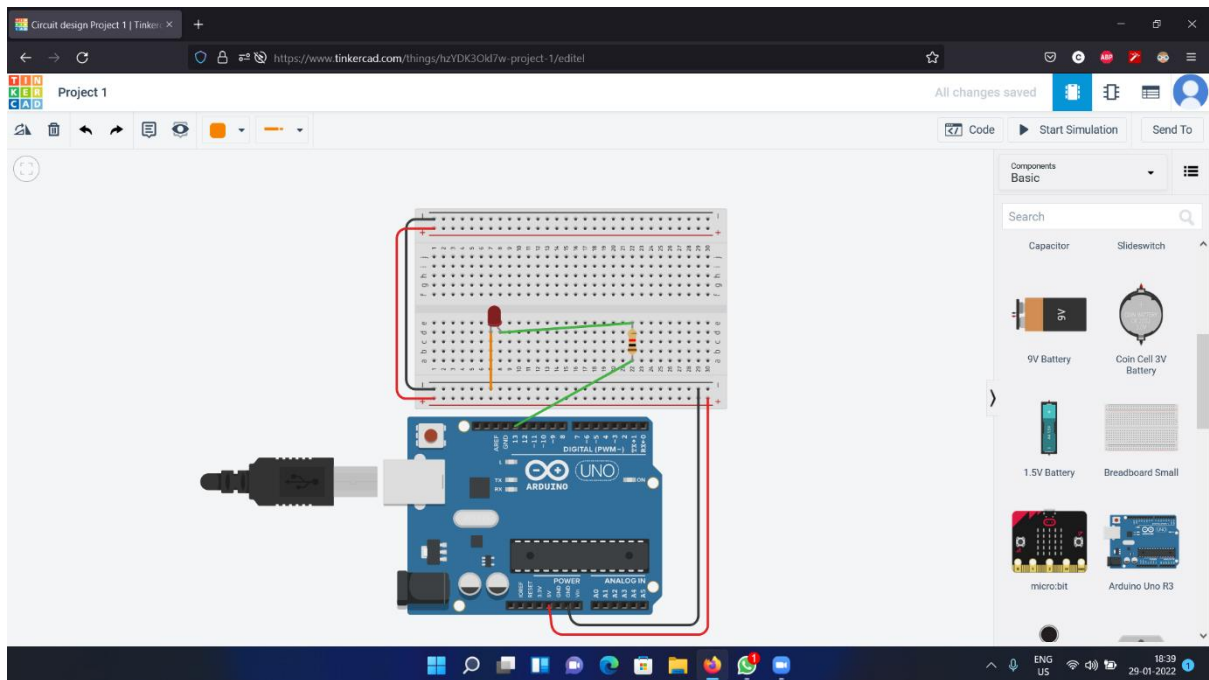
#### 4. Select the Arduino and breadboard and place it in the design area.



#### 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**

