TINKERCAD
4 LED blink Tutorial

BESTIN AUTOMATION

An ISO 9001:2015 certified company

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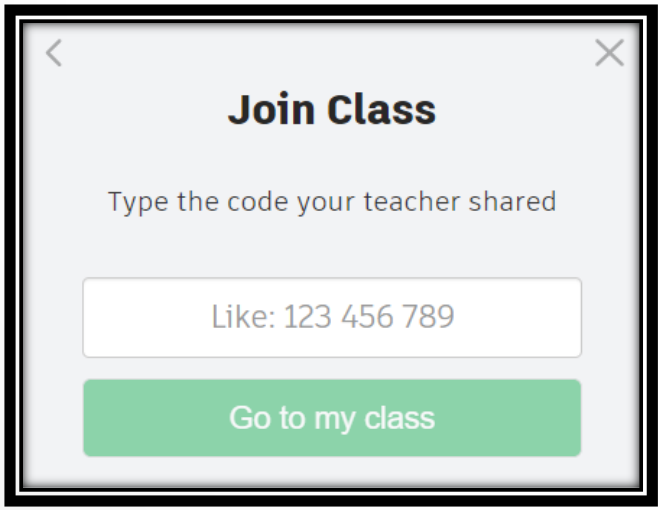
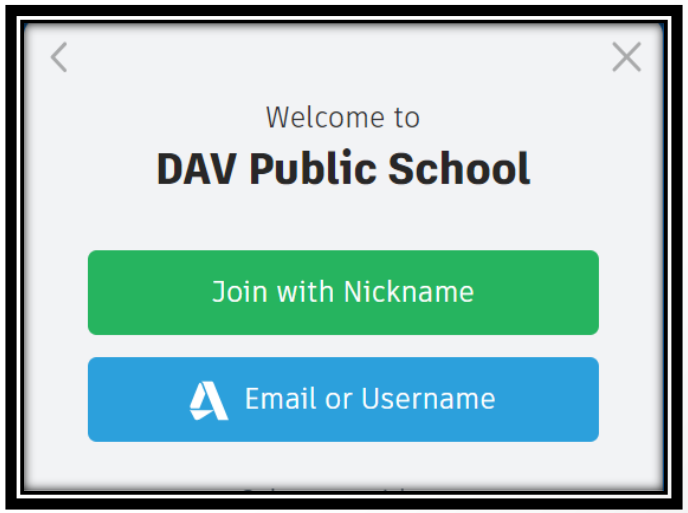
Getting started with Tinkercad Circuits

Step 1: Go to: https://www.tinkercad.com/joinclass

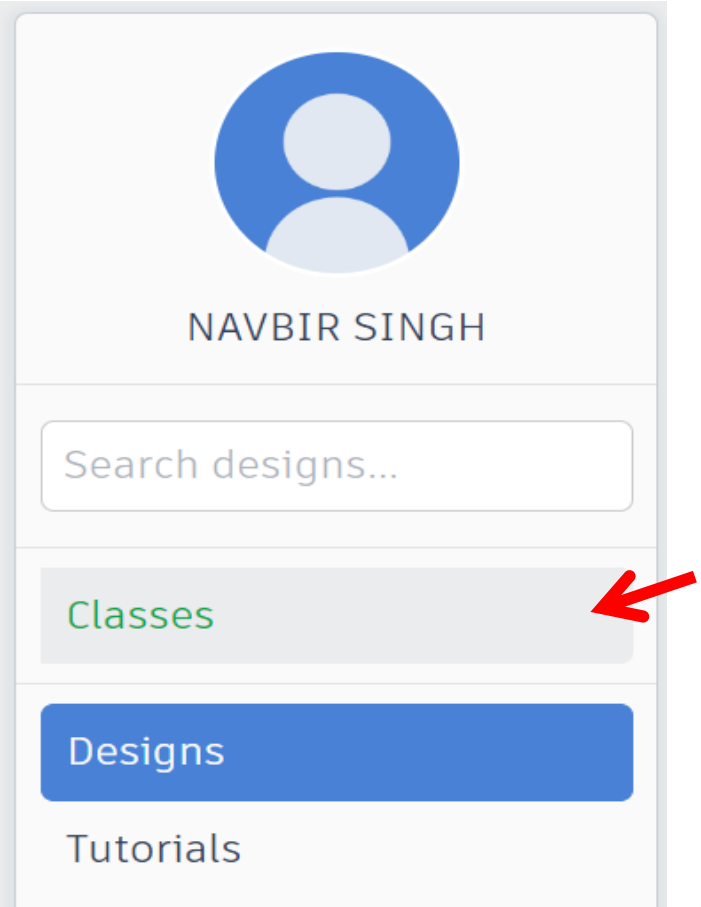
Step 2: Enter the class code.

Step 3: Click on Join with Nickname and enter the nickname.

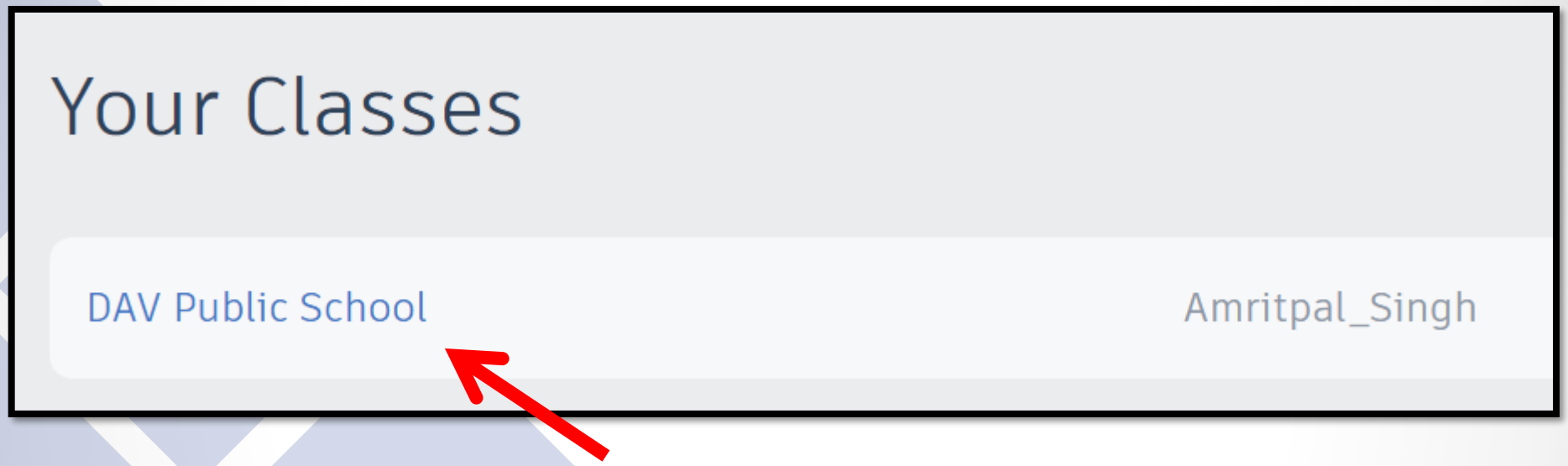




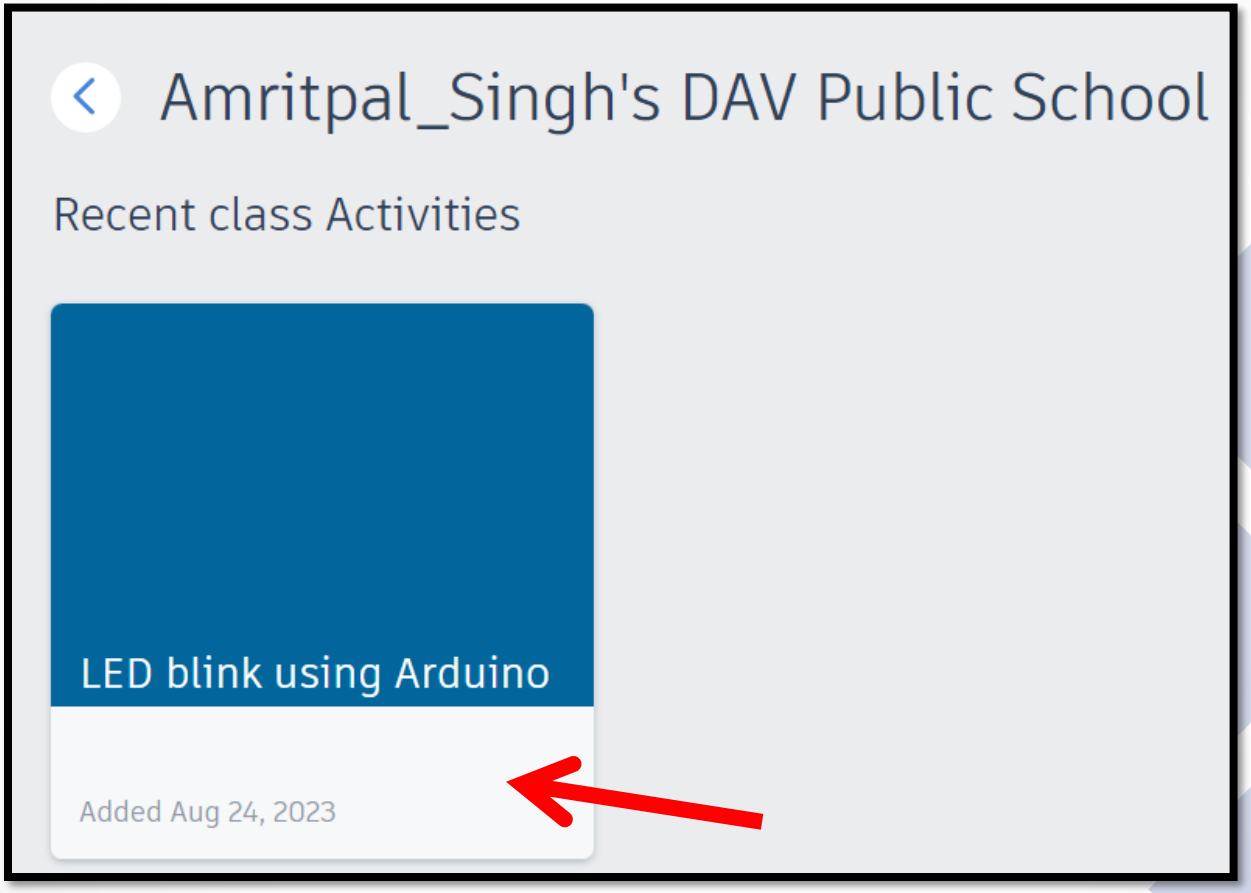
Step 4: Go to "**Classes**" section under your name.



Step 5: Enter your class.

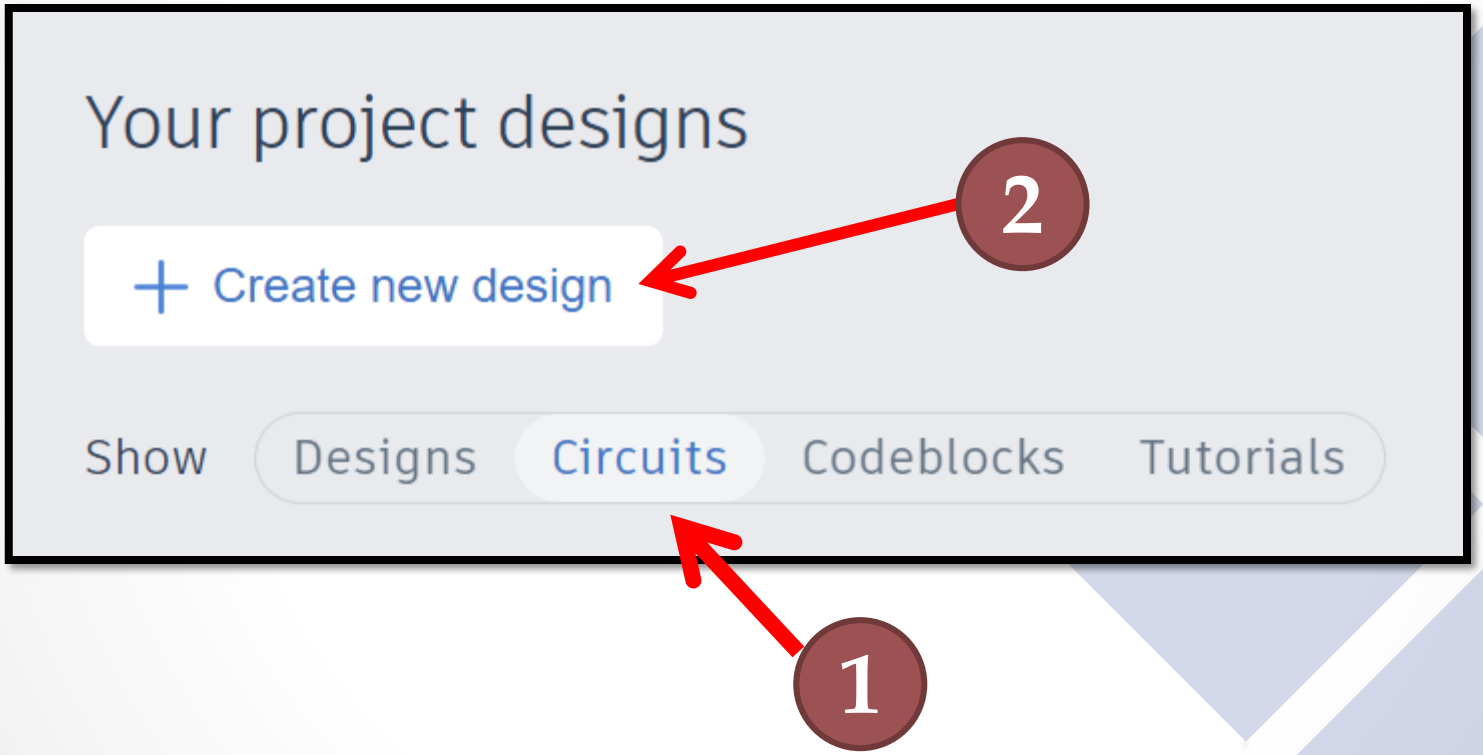


Step 6:Select your activity.



Step 7: Select **Circuits**

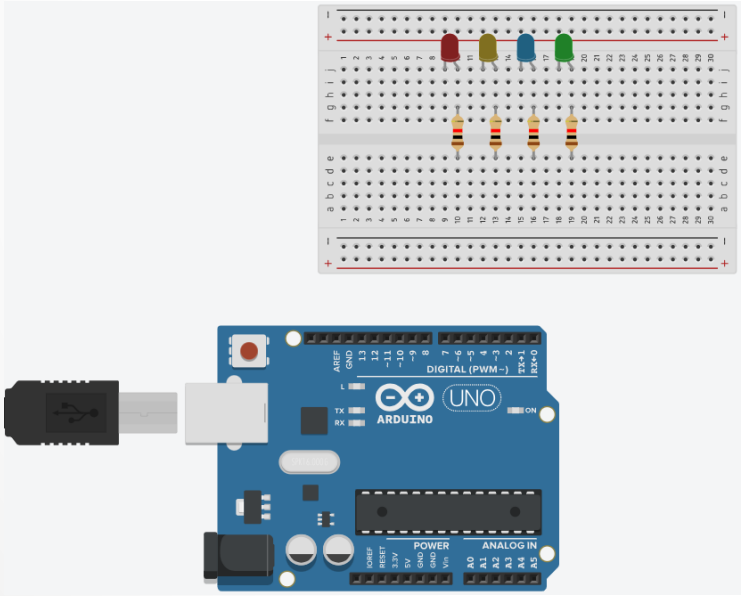
and then click on **Create new design**

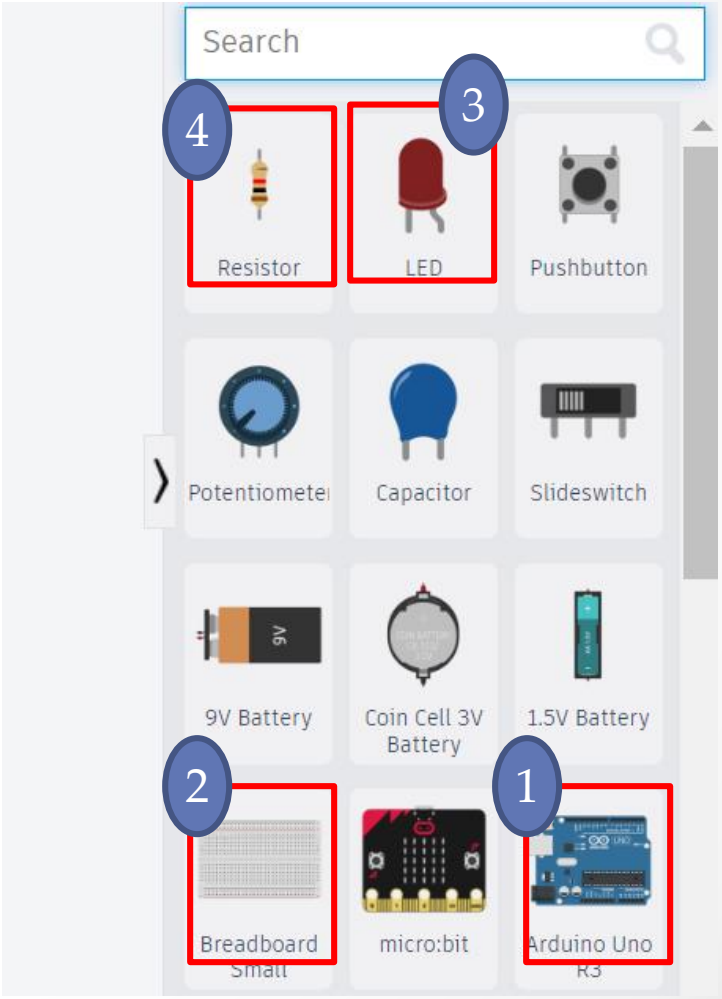


Adding the components

Search and place these components one by one

1. Arduino
2. Breadboard
3. LED x 4
4. Resistor

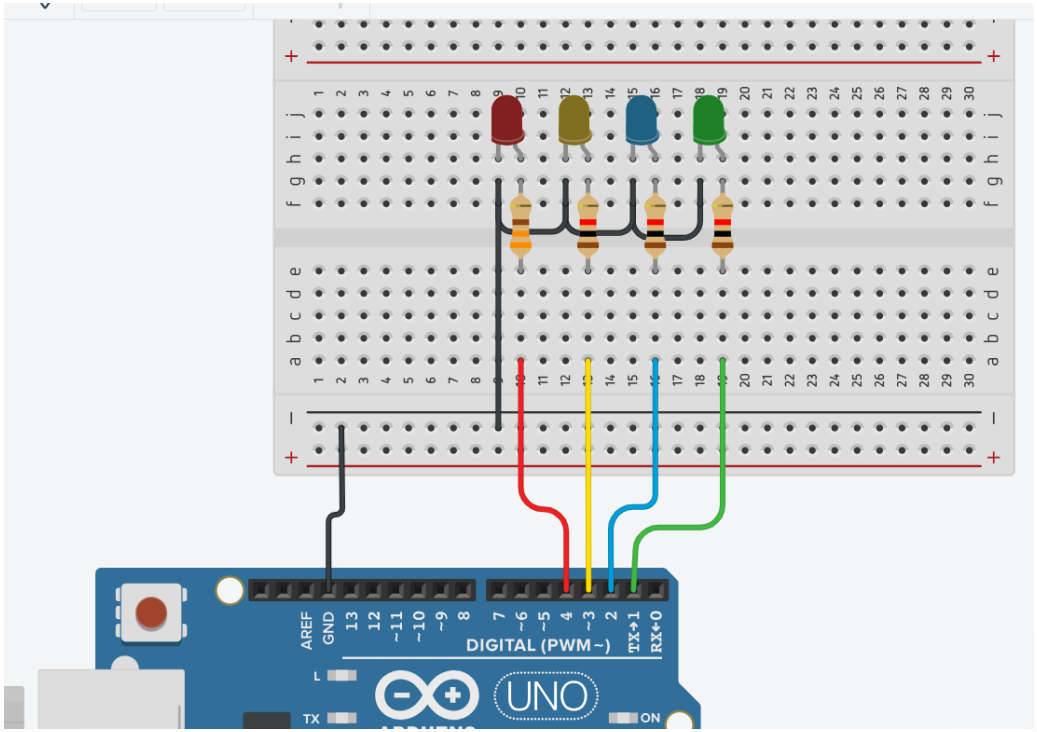




Wiring

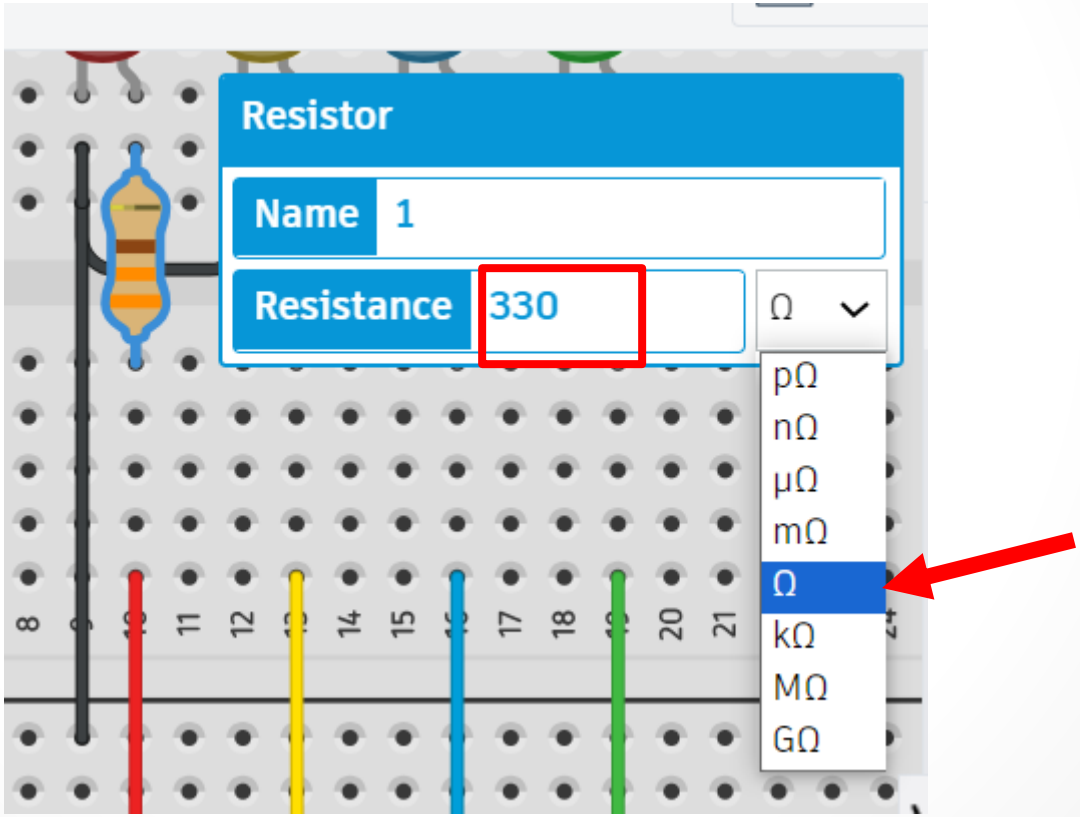
Common the **cathode** of all LED's to **GND** of Arduino.

Connect the **anode** of all LED's to the Arduino pins respectively.



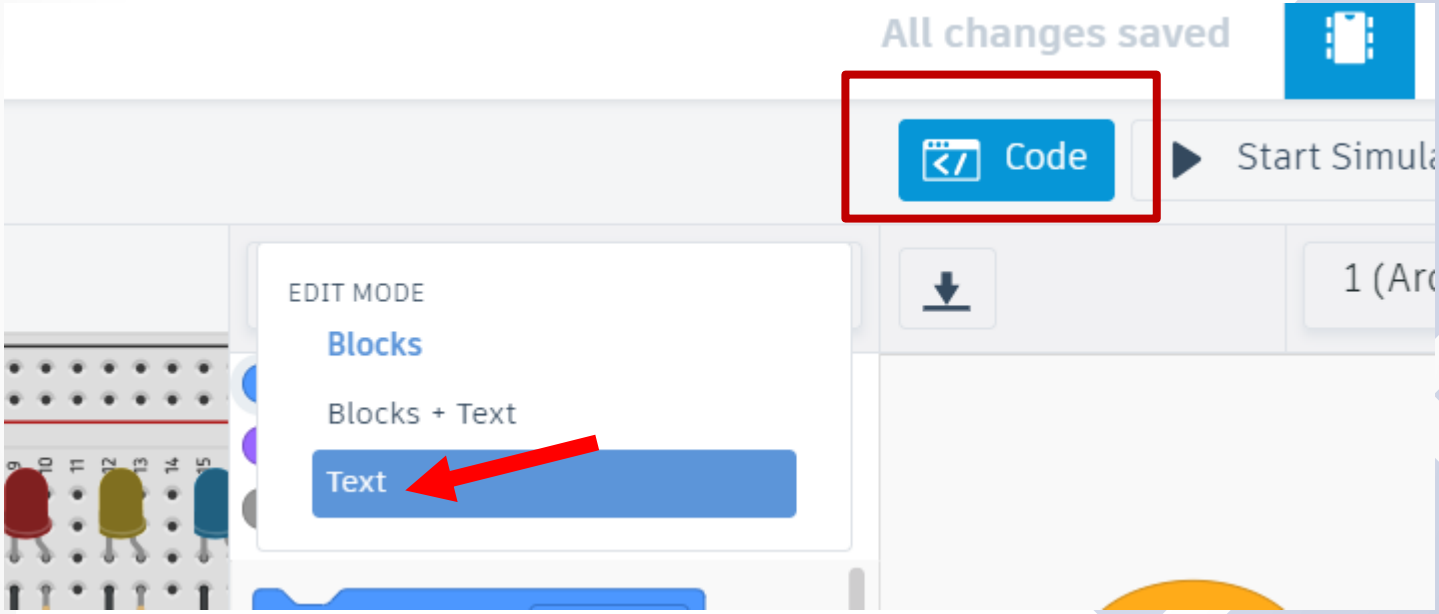
Wiring

Change the resistor value to 330 ohms value by clicking on resistor.



Coding…

Select **Text** mode from top right corner and click **continue.**



Your main Code

```
void setup()
{
  pinMode(1, OUTPUT);
  pinMode(2, OUTPUT);
  pinMode(3, OUTPUT);
  pinMode(4, OUTPUT);
}

void loop()
{
  digitalWrite(1, HIGH);
  delay(1000); // Wait for 1000 millisecond(s)
  digitalWrite(1, LOW);
  delay(1000); // Wait for 1000 millisecond(s)

  digitalWrite(2, HIGH);
  delay(1000); // Wait for 1000 millisecond(s)
  digitalWrite(2, LOW);
  delay(1000); // Wait for 1000 millisecond(s)

  digitalWrite(3, HIGH);
  delay(1000); // Wait for 1000 millisecond(s)
  digitalWrite(3, LOW);
  delay(1000); // Wait for 1000 millisecond(s)

  digitalWrite(4, HIGH);
  delay(1000); // Wait for 1000 millisecond(s)
  digitalWrite(4, LOW);
  delay(1000); // Wait for 1000 millisecond(s)
}
```

Explanation of code

Set Pin number

Set pin ON/OFF
HIGH means ON
LOW means OFF

digitalWrite is a command to turn ON or OFF a particular pin

```
digitalWrite(1, HIGH);
delay(1000); // Wait for 1000 millisecond(s)
digitalWrite(1, LOW);
delay(1000); // Wait for 1000 millisecond(s)
```

Delay means wait time
1000ms = 1 seconds

Happy Coding

Journey begins from here……

Thanks for your attention !

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