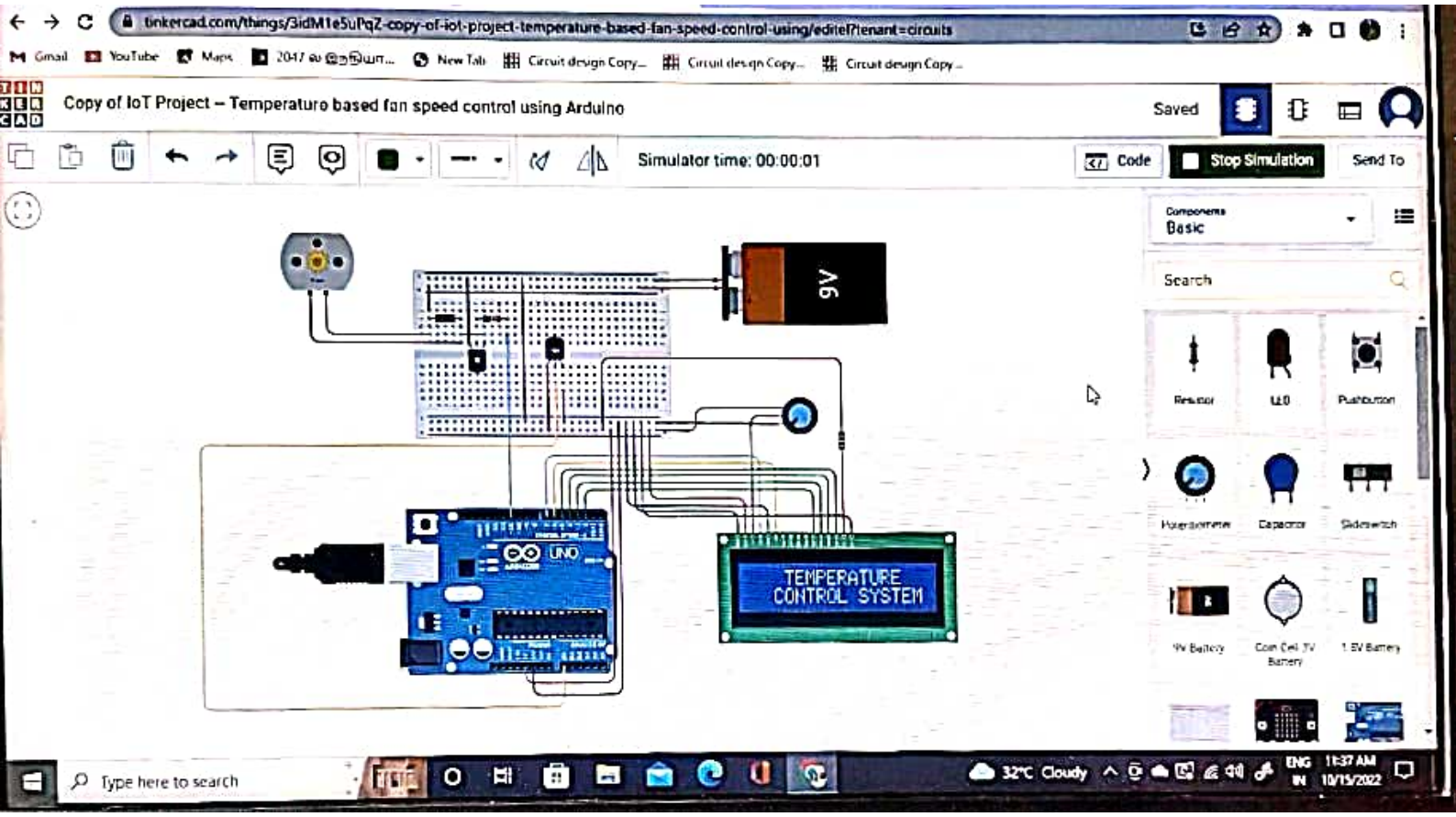
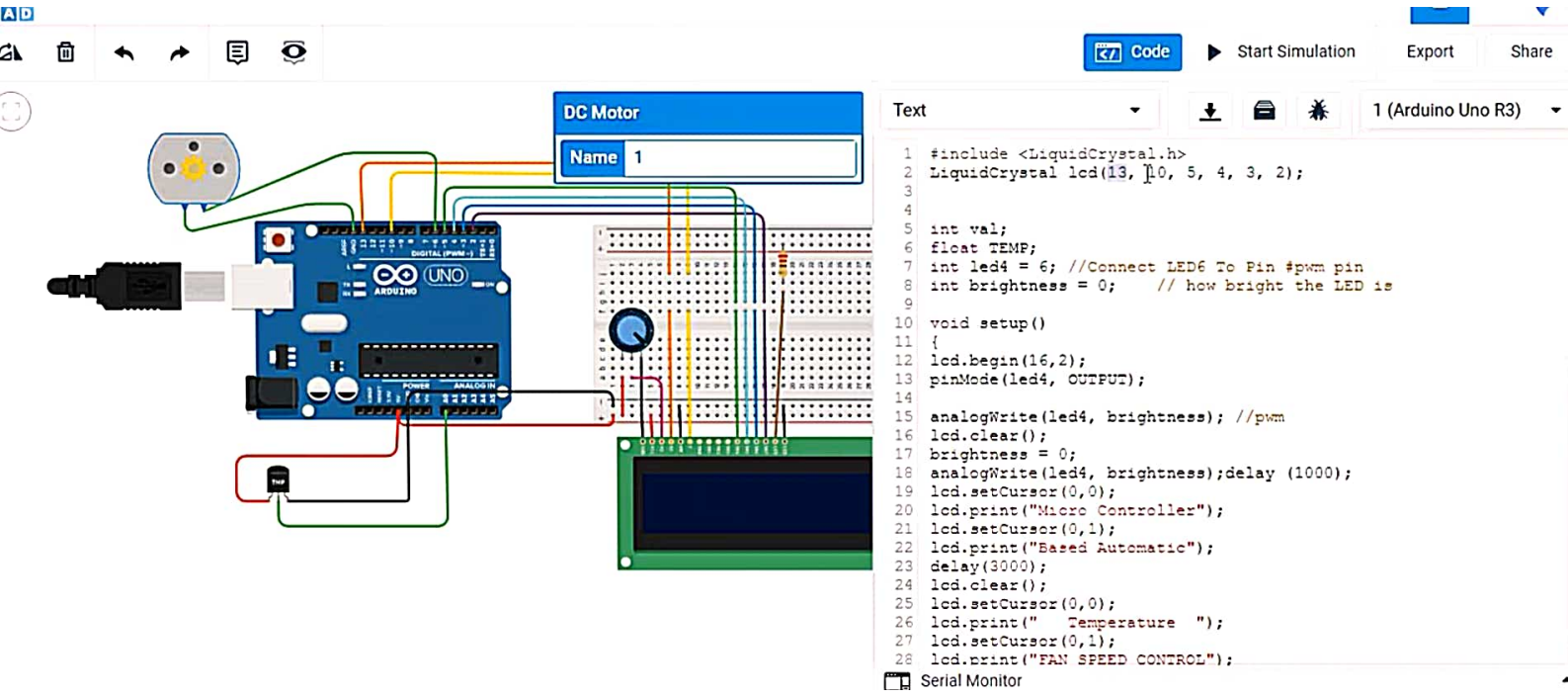
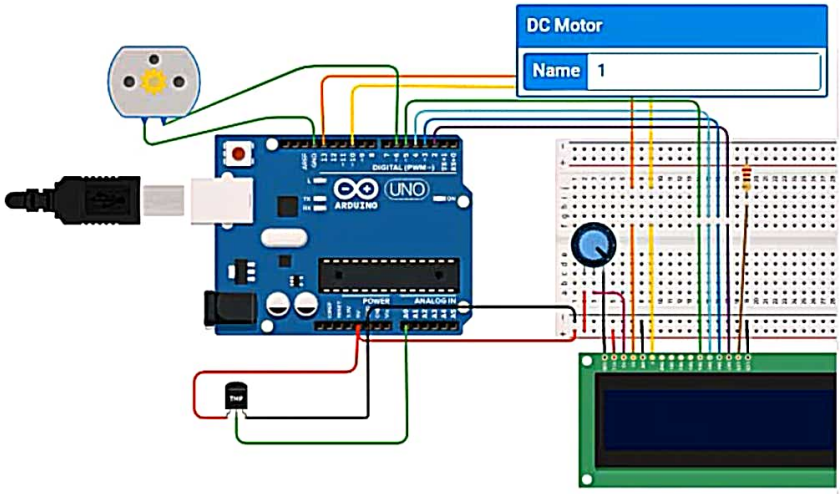

tinkercad.com/things/3idM1e5ulPqZ-copy-of-iot-project-temperature-based-fan-speed-control-using/editel?tenant=circuits
Copy of IoT Project – Temperature based fan speed control using Arduino
Saved
Simulator time: 00:00:01
Code
Stop Simulation
Send To
Components
Basic
Search
9V
UNO
TEMPERATURE
CONTROL SYSTEM
Type here to search
32°C Cloudy
ENG
IN
11:37 AM
10/15/2022


Code
Start Simulation
Export
Share
DC Motor
Name 1
Text
1 (Arduino Uno R3)
#include <LiquidCrystal.h>
LiquidCrystal lcd(13, 10, 5, 4, 3, 2);
int val;
float TEMP;
int led4 = 6; //Connect LED6 To Pin #pwm pin
int brightness = 0; // how bright the LED is
void setup()
{
lcd.begin(16,2);
pinMode(led4, OUTPUT);
analogWrite(led4, brightness); //pwm
lcd.clear();
brightness = 0;
analogWrite(led4, brightness);delay (1000);
lcd.setCursor(0,0);
lcd.print("Micro Controller");
lcd.setCursor(0,1);
lcd.print("Based Automatic");
delay(3000);
lcd.clear();
lcd.setCursor(0,0);
lcd.print(" Temperature ");
lcd.setCursor(0,1);
lcd.print("FAN SPEED CONTROL");
Serial Monitor

Frantic Leelo-Hillar

Saved

Code | Start Simulation | Export | Share



Text | 1 (Arduino Uno R3)

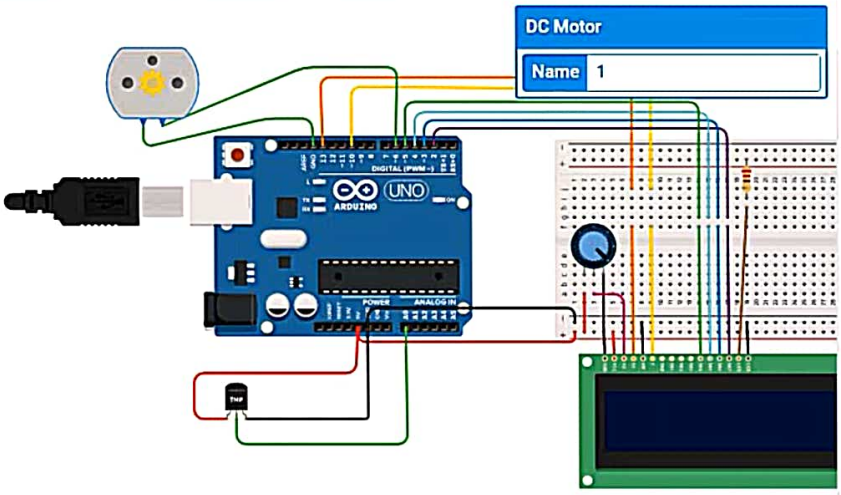
```
pinMode(led4, OUTPUT);

analogWrite(led4, brightness); //pwm
lcd.clear();
brightness = 0;
analogWrite(led4, brightness);delay (1000);
lcd.setCursor(0,0);
lcd.print("Micro Controller");
lcd.setCursor(0,1);
lcd.print("Based Automatic");
delay(3000);
lcd.clear();
lcd.setCursor(0,0);
lcd.print("   Temperature  ");
lcd.setCursor(0,1);
lcd.print("FAN SPEED CONTROL");
delay(3000);
lcd.clear();
}
void loop()
{
val = analogRead(0);
float T=( val/1024.0)*5000;
float TEMP= T/10;
lcd.setCursor(0,0);lcd.print("T:");
lcd.setCursor(3,0);lcd.print(TEMP);delay(500);
delay(1000);

```

Serial Monitor

Frantic Leelo-Hillar

Saved

Code | Start Simulation | Export | Share



Text | 1 (Arduino Uno R3)

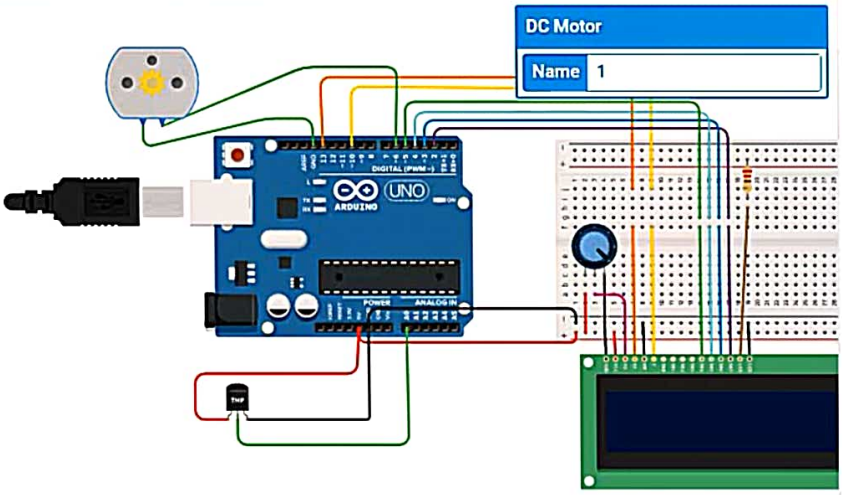
```
void loop()
{
val = analogRead(0);
float T=( val/1024.0)*5000;
float TEMP= T/10;
lcd.setCursor(0,0);lcd.print("T:");
lcd.setCursor(3,0);lcd.print(TEMP);delay(500);
delay(1000);

if(TEMP>20 && TEMP<30)
{
  brightness = 80;analogWrite(led4, brightness);delay (1000);
}

if(TEMP>30 && TEMP<40)
{
  brightness = 120;analogWrite(led4, brightness);delay (1000);
}

if(TEMP>40 && TEMP<50)
{
  brightness = 160;analogWrite(led4, brightness);delay (1000);
}

if(TEMP>50 && TEMP<60)
{
  brightness = 200;analogWrite(led4, brightness);delay (1000);
}
```

Serial Monitor

Frantic Leelo-Hillar

Saved

Code | Start Simulation | Export | Share



Text | 1 (Arduino Uno R3)

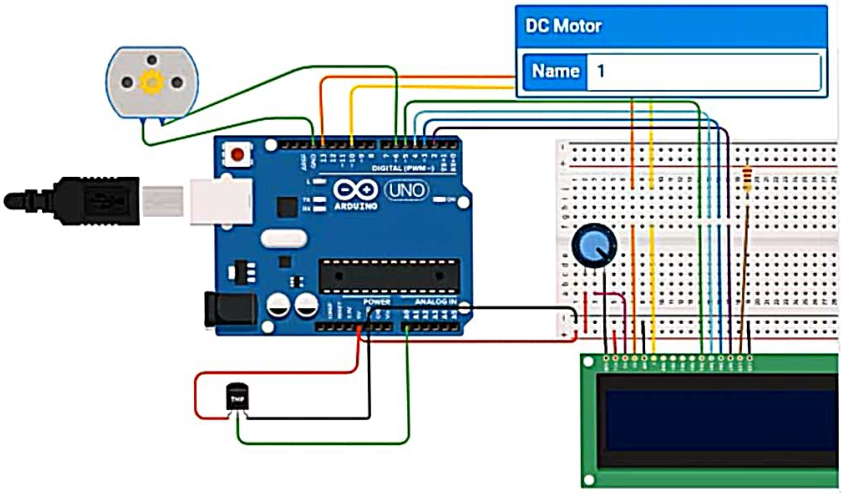
```
lcd.setCursor(3,0);lcd.print(TEMP);delay(500);
delay(1000);

if(TEMP>20 && TEMP<30)
{
  brightness = 80;analogWrite(led4, brightness);delay (1000);
}

if(TEMP>30 && TEMP<40)
{
  brightness = 120;analogWrite(led4, brightness);delay (1000);
}

if(TEMP>40 && TEMP<50)
{
  brightness = 160;analogWrite(led4, brightness);delay (1000);
}

if(TEMP>50 && TEMP<60)
{
  brightness = 200;analogWrite(led4, brightness);delay (1000);
}
if(TEMP>60 && TEMP<100)
{
  brightness = 250;analogWrite(led4, brightness);delay (1000);
}

}
```

Serial Monitor

Frantic Leelo-Hillar

All changes saved

Code | Start Simulation | Export | Share



Text | 1 (Arduino Uno R3)

```
38  lcd.setCursor(3,0);lcd.print(TEMP);delay(500);
39  delay(1000);
40
41  if(TEMP>20 && TEMP<40)
42  {
43    brightness = 80;analogWrite(led4, brightness);delay (1000);
44  }
45
46  if(TEMP>40 && TEMP<60)
47  {
48    brightness = 120;analogWrite(led4, brightness);delay (1000);
49  }
50
51  if(TEMP>60 && TEMP<80)
52  {
53    brightness = 160;analogWrite(led4, brightness);delay (1000);
54  }
55
56  if(TEMP>80 && TEMP100)
57  {
58    brightness = 200;analogWrite(led4, brightness);delay (1000);
59  }
60  if(TEMP>100 && TEMP<100)
61  {
62    brightness = 250;analogWrite(led4, brightness);delay (1000);
63  }
64
65  }
```

Serial Monitor