

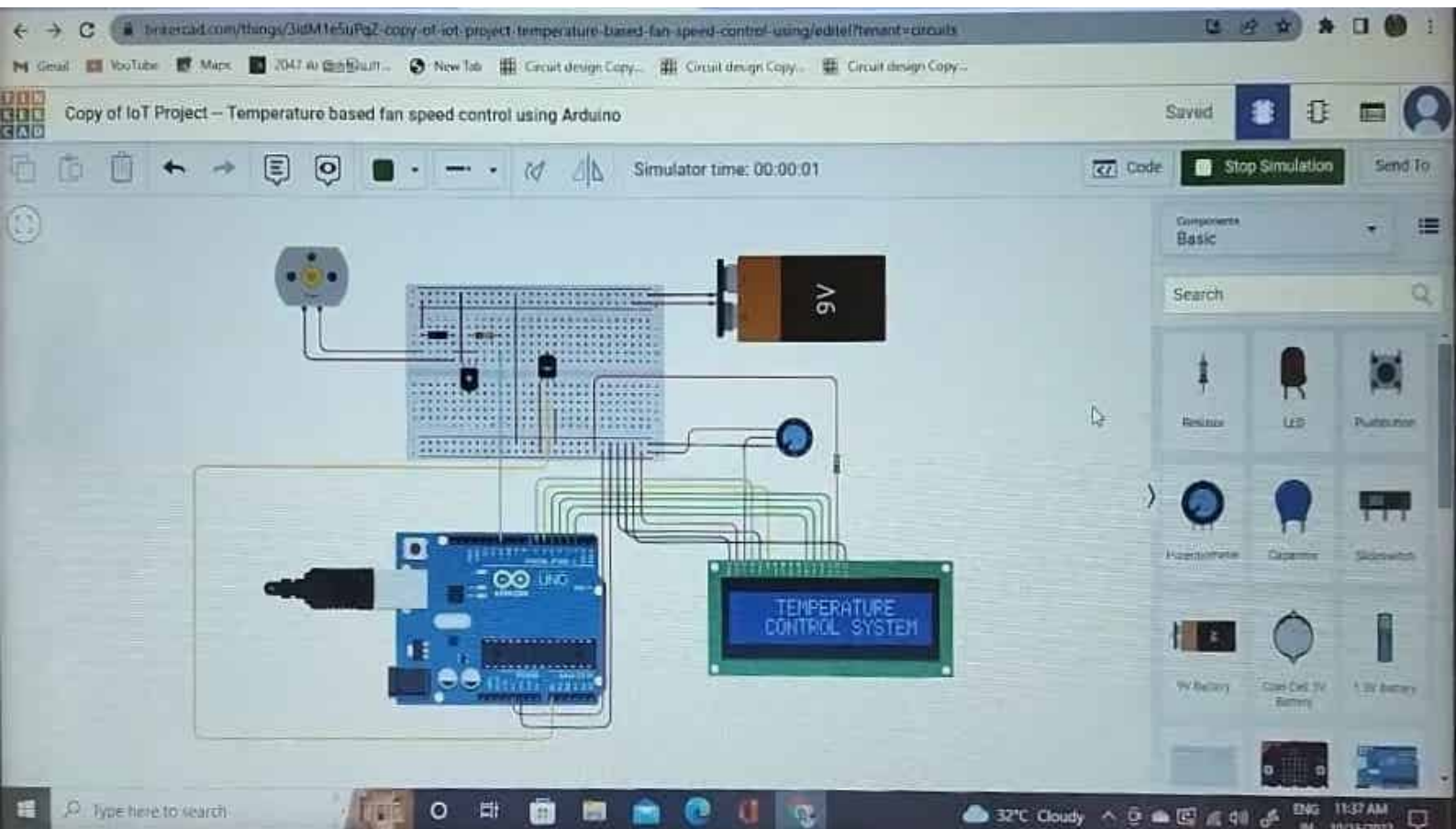
tinycad.com/things/4M5iW6MYb5j-frantic-leelo-hillar/edit

Frantic Leelo-Hillar

DC Motor
Name 1

```
1 #include <LiquidCrystal.h>
2 LiquidCrystal lcd(13, 10, 5, 4, 3, 2);
3
4 int val;
5 float TEMP;
6 int led4 = 6; //Connect LED4 To Pin #pin pin
7 int brightness = 0; // how bright the LED is
8
9 void setup()
10 {
11   lcd.begin(16,2);
12   pinMode(led4, OUTPUT);
13
14   analogWrite(led4, brightness); //pin
15   lcd.clear();
16   brightness = 0;
17   analogWrite(led4, brightness);delay (1000);
18   lcd.setCursor(0,0);
19   lcd.print("Micro Controller");
20   lcd.setCursor(0,1);
21   lcd.print("Based Automatic");
22   delay(3000);
23   lcd.clear();
24   lcd.setCursor(0,0);
25   lcd.print(" Temperature ");
26   lcd.setCursor(0,1);
27   lcd.print("FAN SPEED CONTROL");
28 }
```

Serial Monitor

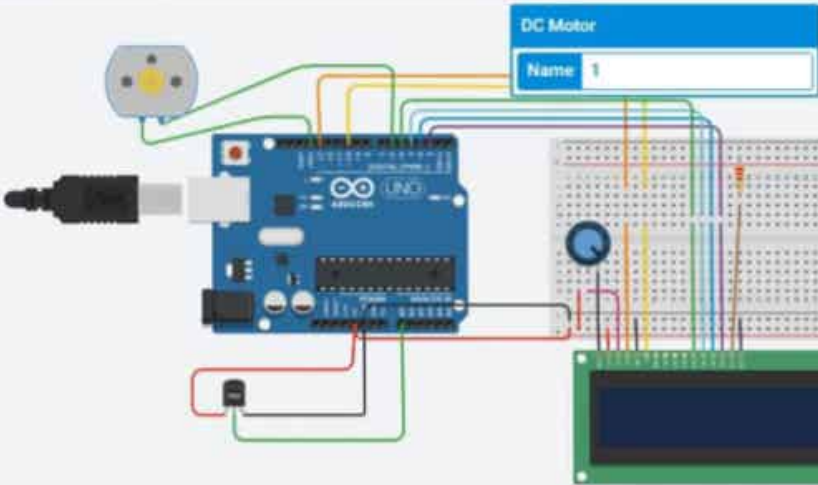


tinkercad.com/things/hM5W8MVb3j-frantic-leelo-hillar/edit#t=components

Frantic Leelo-Hillar

Code Start Simulation Export Share

1 (Arduino Uno R3)



DC Motor Name 1

```
1 led.setCursor(0,0);led.print(TEMP);delay(100);
2 delay(1000);
3
4 if(TEMP>20 && TEMP<30)
5 {
6   brightness = 80;analogWrite(led4, brightness);delay (1000);
7 }
8
9 if(TEMP>30 && TEMP<40)
10 {
11   brightness = 120;analogWrite(led4, brightness);delay (1000);
12 }
13
14 if(TEMP>40 && TEMP<50)
15 {
16   brightness = 160;analogWrite(led4, brightness);delay (1000);
17 }
18
19 if(TEMP>50 && TEMP<60)
20 {
21   brightness = 200;analogWrite(led4, brightness);delay (1000);
22 }
23
24 if(TEMP>60 && TEMP<100)
25 {
26   brightness = 250;analogWrite(led4, brightness);delay (1000);
27 }
28
29 }
```

Serial Monitor

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Frantic Leelo-Hillar

DC Motor
Name 1

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

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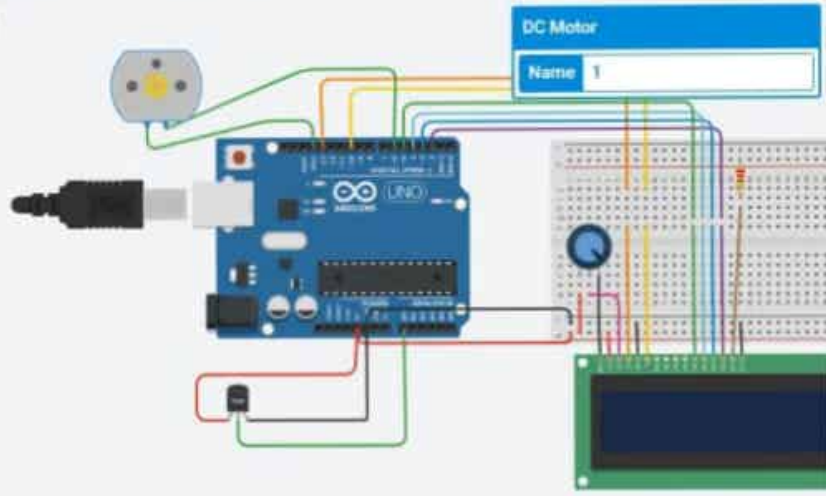
Apps Home History Google Webmail Login Gmail WhatsApp vsembedded - You... vsembedded - 949... AddText - Caption... GoNative - Convert...

Frantic Leelo-Hillar

Save

Code Start Simulation Export Share

1 (Arduino Uno R3)



DC Motor
Name 1

```
13 pinMode(LED4, OUTPUT);  
14  
15 analogWrite(LED4, brightness); //pwm  
16 led.clear();  
17 brightness = 0;  
18 analogWrite(LED4, brightness);delay (1000);  
19 led.setCursor(0,0);  
20 led.print("Micro Controller");  
21 led.setCursor(0,1);  
22 led.print("Based Automatic");  
23 delay(3000);  
24 led.clear();  
25 led.setCursor(0,0);  
26 led.print(" Temperature ");  
27 led.setCursor(0,1);  
28 led.print("FAN SPEED CONTROL");  
29 delay(3000);  
30 led.clear();  
31  
32 void loop()  
33 {  
34   val = analogRead(0);  
35   float T=( val/1024.0)*5000;  
36   float TEMP= T/10;  
37   led.setCursor(0,0);led.print("T:");  
38   led.setCursor(3,0);led.print(TEMP);delay(500);  
39   delay(1000);  
40  
41  
42  
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99  
100
```

Serial Monitor

tinkercad.com/things/HMSiWBMVb5j-frantic-leelo-hillar/edit#t=

Frantic Leelo-Hillar

All changes saved

Code Start Simulation Export Share

1 (Arduino Uno R3)

DC Motor
Name 1

```
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 && TEMP<100)
57 {
58   brightness = 200;analogWrite(led4, brightness);delay (1000);
59 }
60 if(TEMP>100 && TEMP<120)
61 {
62   brightness = 250;analogWrite(led4, brightness);delay (1000);
63 }
64
65 }
```

Serial Monitor