

Circuit design TMP36 | Tinkercad

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TMP36

Save

Code Stop Simulation Send To

Simulator time: 00:00:00.297

```
1 // C++ code
2 //
3 void setup()
4 {
5   Serial.begin(9600);
6   pinMode(2,OUTPUT);
7 }
8
9 void loop()
10 {
11   double v=analogRead(A1);
12   Serial.print("Analog Value:");
13   Serial.println(v);
14   double vma/1024;
15   double twolt=5;
16   Serial.print("temp value voltage:");
17   Serial.println(twolt);
18   double d = twolt-0.5;
19   double c = d*100;
20   Serial.print("Temperature is:");
21   Serial.println(c);
22   if(c<0)
23   {
24     digitalWrite(2,HIGH);
25   }
26   else
27   {
28     digitalWrite(2,LOW);
29   }
30 }
```

How the debugger works

1. Add breakpoints by clicking on the line numbers.

2. Hover over the variables while paused to see their value.





3. Use the buttons above to resume simulation or step one line at a time.


Activate Windows


Go to Settings to activate Windows.

Serial Monitor



Saved



 Code

 Stop Simulation

Send To



1 (Arduino Uno R3) ▾

```
1 // C++ code
2 //
3 void setup()
4 {
5   Serial.begin(9600);
6   pinMode(9,OUTPUT);
7 }
8
9 void loop()
10 {
11   double a=analogRead(A1);
12   Serial.print("Adc Value:");
13   Serial.print(a);
14   double v=a/1024;
15   double tvolt=v*5;
16   Serial.print("temp value voltage:");
17   Serial.println(tvolt);
18   double o = tvolt-0.5;
19   double t= o*100;
20   Serial.print("Temperature is:");
21   Serial.print(t);
22   if(t>=50)
23   {
24     digitalWrite(9,HIGH);
25   }
26   else
27   {
28     digitalWrite(9,LOW);
29   }
30 }
```


How the debugger works

✕

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 Serial Monitor

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