

Circuit design Swanky Snicket | Tinkercad

tinkercad.com/things/hnK94KR3cq5-swanky-snicket/editel?tenant=circuits

Swanky Snicket

All changes saved

Code Initializing... Send To

Start / stop simulation

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.

```
1 // C++ code
2 //
3
4 int PinSensor =2;
5 int pinLed =12;
6 int pinBuzzer=13;
7 int pirSensor =0;
8
9 void setup()
10 {
11   PinMode(pinSensor, INPUT);
12   PinMode(pinLed, output);
13   pinMode(pinBuzzer, OUTPUT);
14 }
15
16 void loop()
17 {
18   pirSensor = digitalread(pinSensor);
19   if(pirSesor == HIGH)
20   {
21
22     Digitalwrite(pinLed,HIGH);
23     tone(pinbuzzer,1000,500);
24   }
25   Digitalwrite(pinLed,LOW);
26 }
27
```

Serial Monitor

The screenshot shows the Tinkercad web interface. On the left, a circuit is built with an Arduino Uno connected to a breadboard. A sensor module (likely a PIR sensor) is connected to the breadboard, which also contains a buzzer and an LED. The code editor on the right contains the following C++ code:

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```

Below the code editor is a 'Serial Monitor' tab. A tooltip titled 'How the debugger works' is visible, listing three steps: 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.