

Circuit design Frantic Blad | Tinkercad

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Frantic Blad

Simulator time: 00:00:02

Code Stop Simulation Send To

1 (Arduino Uno R3)

```
1 #include <LiquidCrystal.h>
2 volatile int count = 0;
3 int interruptPin = 2;
4 float speedRPM = 0;
5 LiquidCrystal lcd(7, 8, 9, 10, 11, 12);
6
7 void encoderPulse()
8 {
9     count++;
10 }
11 void setup() {
12     lcd.begin(16, 2);
13     lcd.print("DC Motor speed:");
14     lcd.setCursor(13, 1);
15     lcd.print("RPM");
16     pinMode(interruptPin, INPUT_PULLUP);
17     attachInterrupt(digitalPinToInterrupt(interruptPin), encoderPulse);
18 }
19 void loop() {
20     lcd.setCursor(0, 1);
21     count = 0;
22     delay(200);
23     speedRPM = count * 6.25;
24     lcd.print(speedRPM);
25 }
26
27
```

Serial Monitor

DC Motor Speed: 687.50 RPM

5V 100mA

31°C Mostly sunny 10:12 24-09-2022