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[arduino-bootcamp](#) / [CPU_Fan_Control_Input](#) / **CPU_Fan_Control_Input.ino****Lee Assam** First commit **0** contributors

39 lines (31 sloc) | 883 Bytes

...

```
1  /*
2  Arduino Bootcamp
3
4  - Controlling a CPU Fan - User Input Control - Part 1
5
6  This project demonstrates how a CPU Fan can be controlled with the Arduino.
7  The objective is to drive a higher load with an external power source and use a transistor as a switch.
8  The user will be asked to enter the fan speed
9
10 created 10/30/2016
11 modified 10/30/2016
12 by: Lee Assam
13
14 */
15
16 #define motorPin 11
17
18 void setup() {
19     //define motor pin as an output
20     pinMode(motorPin, OUTPUT);
21     //initially turn off the fan
22     analogWrite(motorPin, 0);
23     Serial.begin(9600);
24     //Display instructions
25     Serial.println("Enter a number between 0 and 9: ");
26 }
27
28 void loop() {
29     if (Serial.available()) {
30         //Get the input from the user
31         char ch = Serial.read();
32         if (ch>= '0' && ch <= '9') {
```

```
33     int speed = ch - '0';
34     //Set the appropriate fan speed
35     analogWrite(motorPin, map(speed, 0, 9, 0, 255));
36 }
37 }
38 }
39
```