

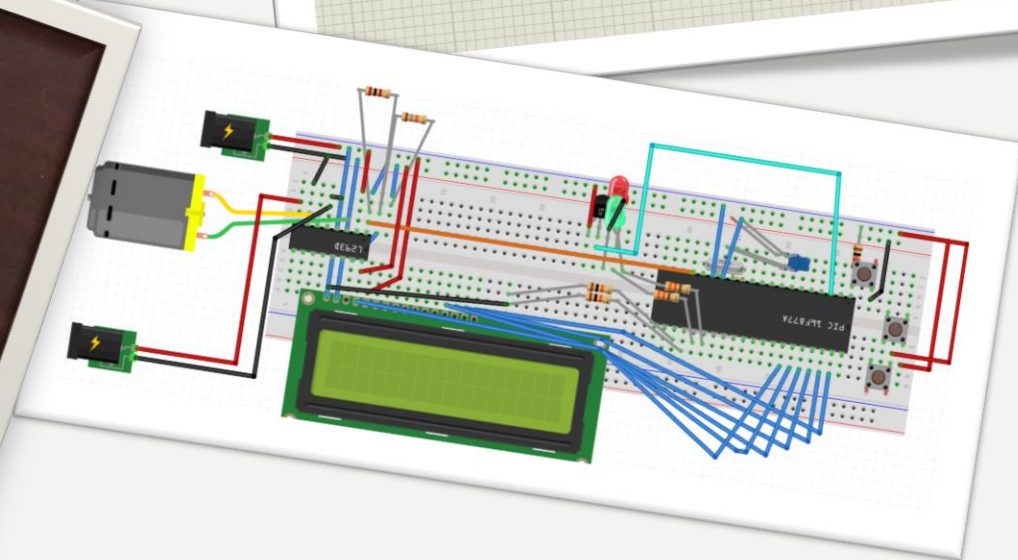
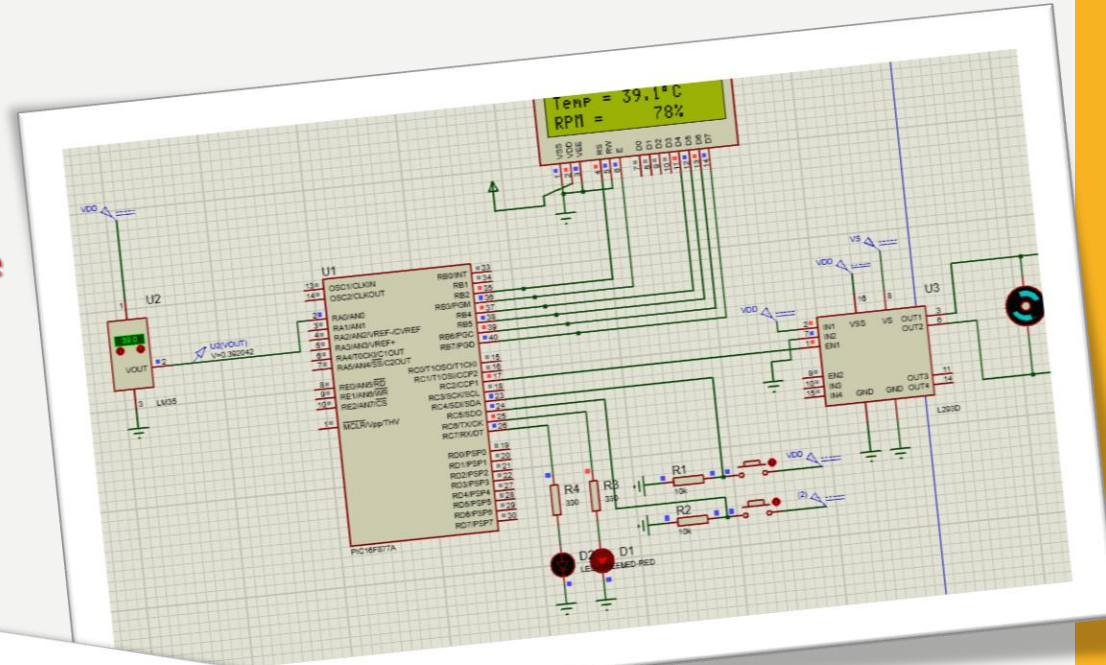
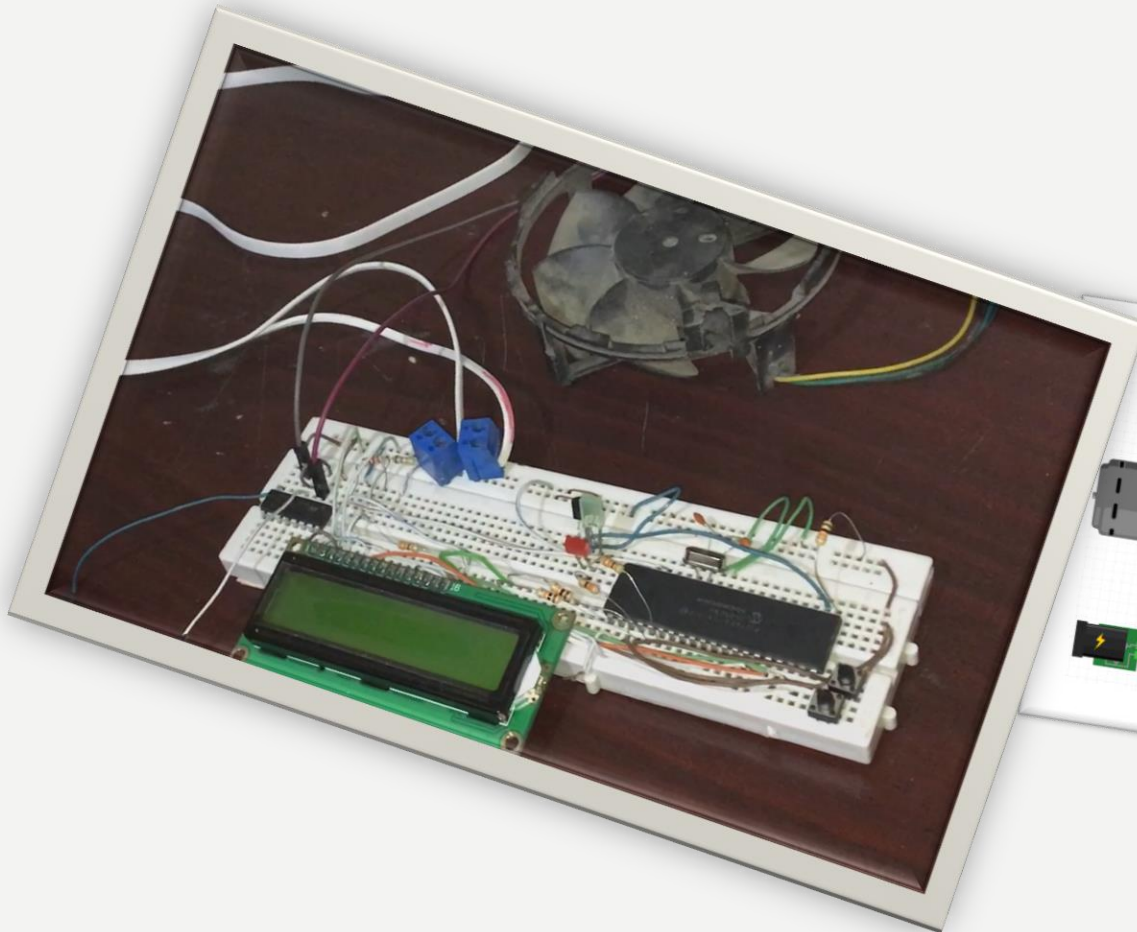


TOGGLE TEAM

C3 TEAM OF SECTION 3

PROJECT OUTLINE

A Speed Controlled fan according to measured temperature

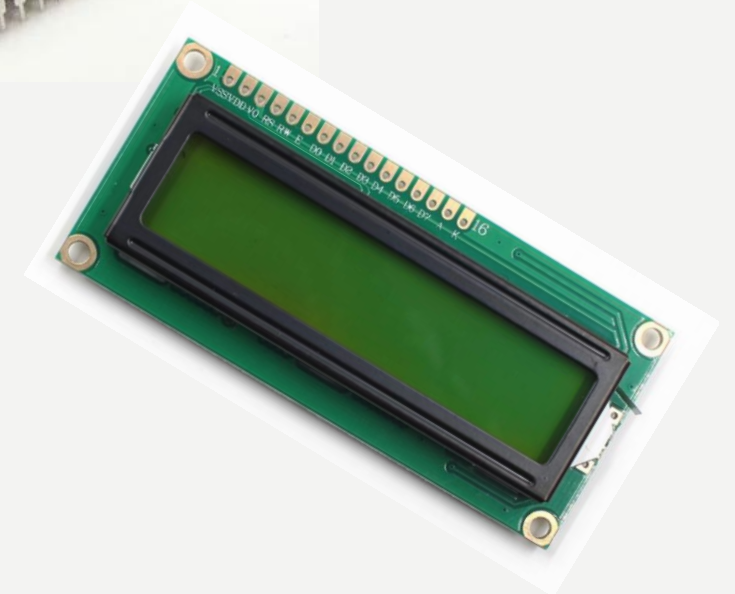
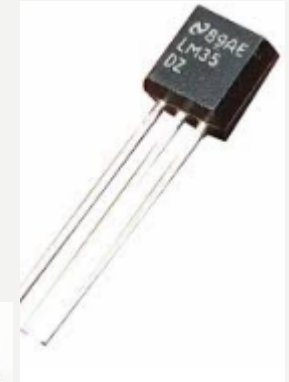


INTRODUCTION

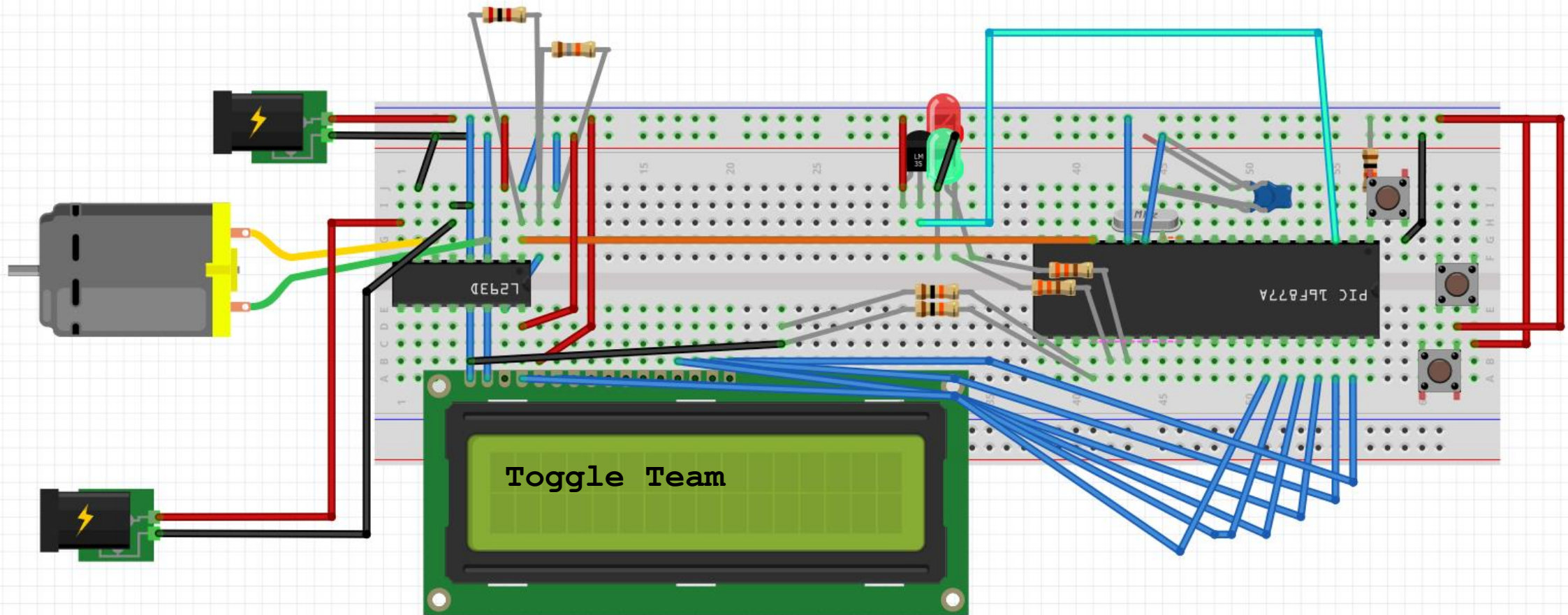
- Temperature processing is one of the most important process that systems need .some systems cannot afford temperature rising so it uses controller to make the temperature at the allowed limits
- Our project allows users to set the critical temperature that the system preferred not to exceed it so after reaching it the fan starts if the temperature went far from the critical one the fan RPM will increase.

USED COMPONENTS

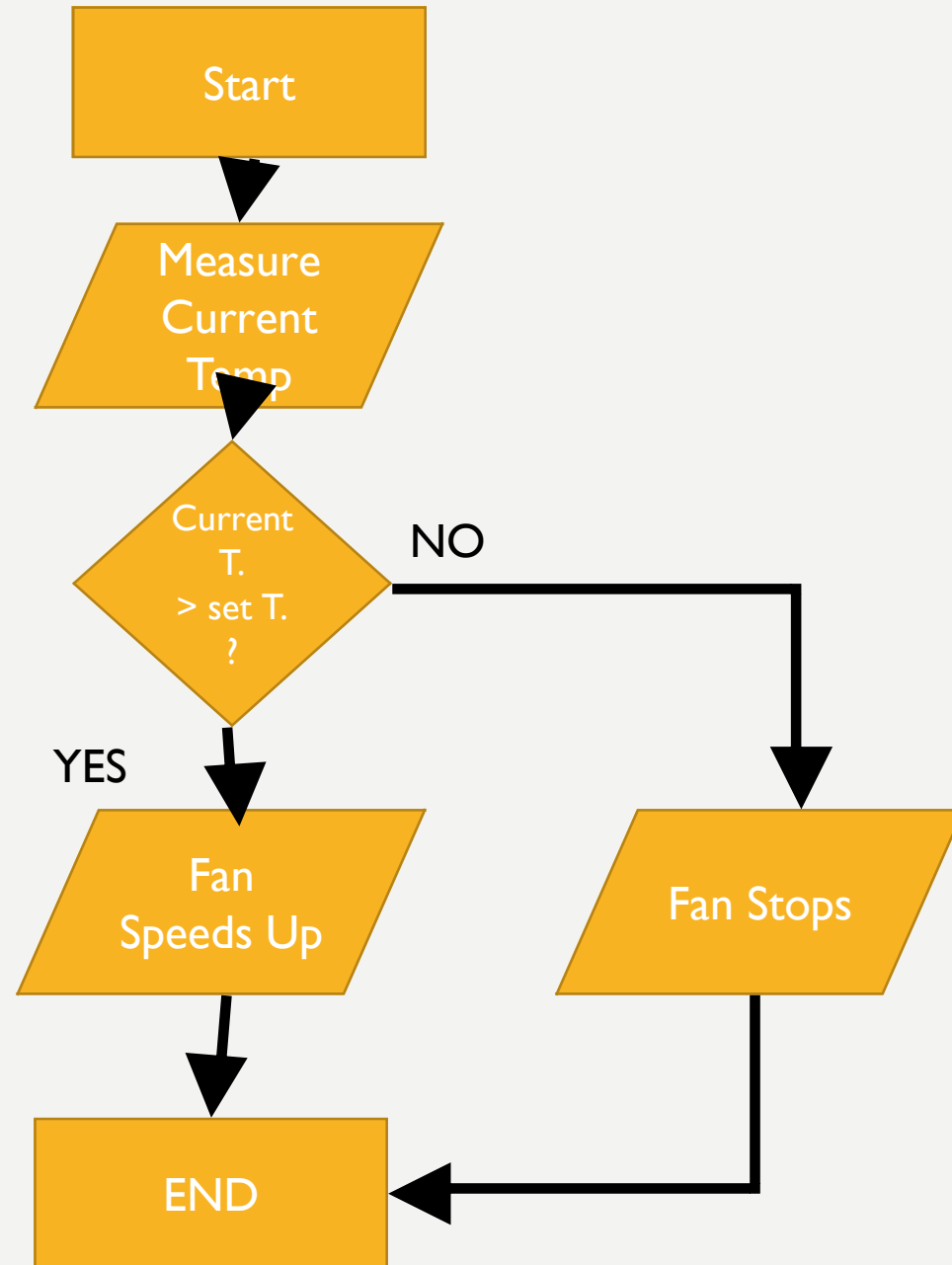
- LM35 sensor (x1)
- H bridge (L293D) (x1)
- LCD (x1)
- Fan (x1)
- PIC 16F877A (x1)
- Push buttons (x3)
- Resistors (10kx3 330x2 2kx1 18kx1)
- LEDs (Greenx1 Redx1)
- 5 V supply (x1)
- 12 V supply (x1)



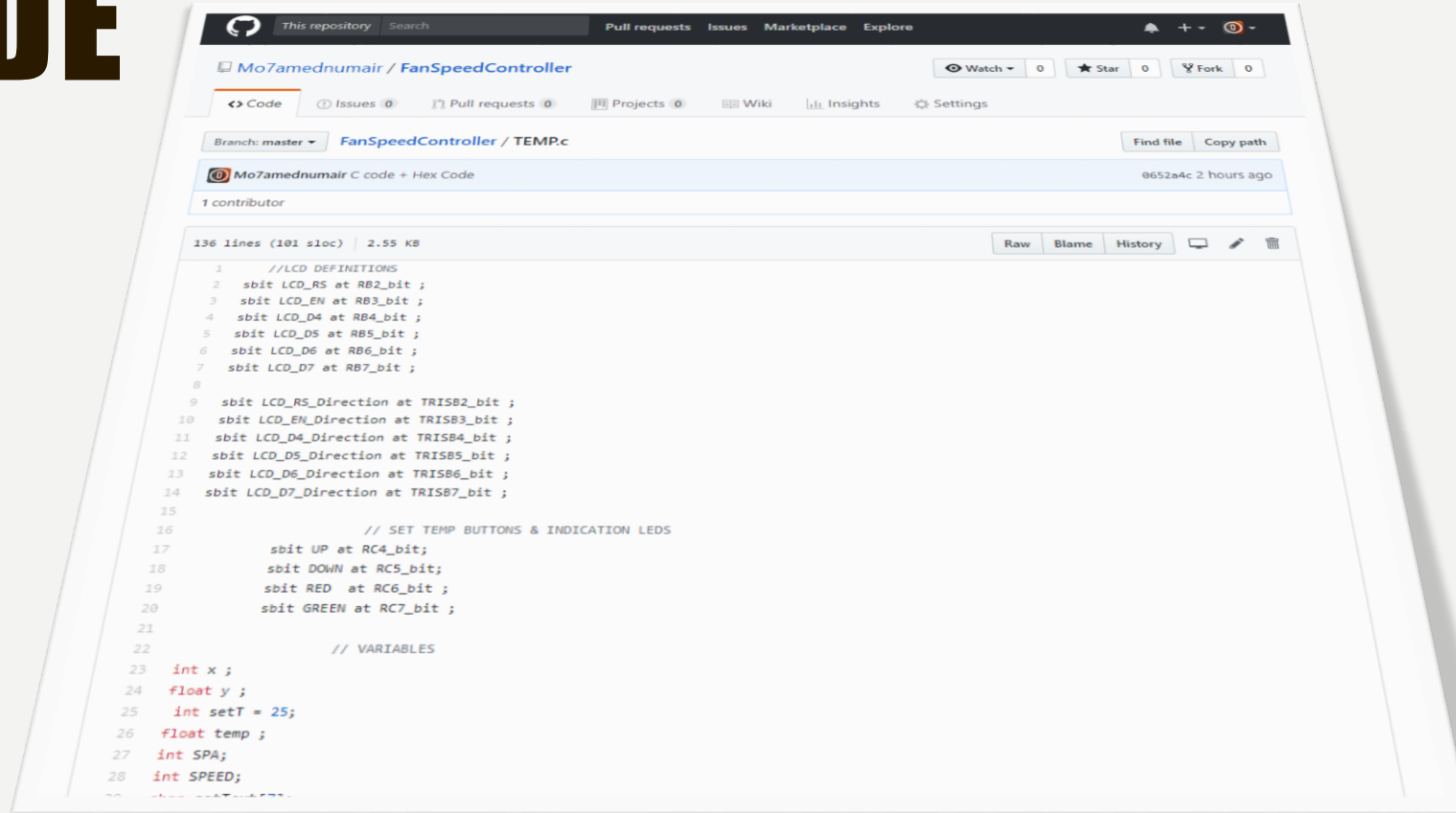
HOW THEY ARE CONNECTED



FLOW CHART



CODE



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Mo7amednumair / FanSpeedController

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Branch: master FanSpeedController / TEMP.c Find file Copy path

Mo7amednumair C code + Hex Code 0652a4c 2 hours ago

1 contributor

136 lines (101 sloc) | 2.55 KB Raw Blame History

```
1 //LCD DEFINITIONS
2 sbit LCD_RS at RB2_bit ;
3 sbit LCD_EN at RB3_bit ;
4 sbit LCD_D4 at RB4_bit ;
5 sbit LCD_D5 at RB5_bit ;
6 sbit LCD_D6 at RB6_bit ;
7 sbit LCD_D7 at RB7_bit ;
8
9 sbit LCD_RS_Direction at TRISB2_bit ;
10 sbit LCD_EN_Direction at TRISB3_bit ;
11 sbit LCD_D4_Direction at TRISB4_bit ;
12 sbit LCD_D5_Direction at TRISB5_bit ;
13 sbit LCD_D6_Direction at TRISB6_bit ;
14 sbit LCD_D7_Direction at TRISB7_bit ;
15
16 // SET TEMP BUTTONS & INDICATION LEDS
17 sbit UP at RC4_bit;
18 sbit DOWN at RC5_bit;
19 sbit RED at RC6_bit ;
20 sbit GREEN at RC7_bit ;
21
22 // VARIABLES
23 int x ;
24 float y ;
25 int setT = 25;
26 float temp ;
27 int SPA;
28 int SPEED;
```

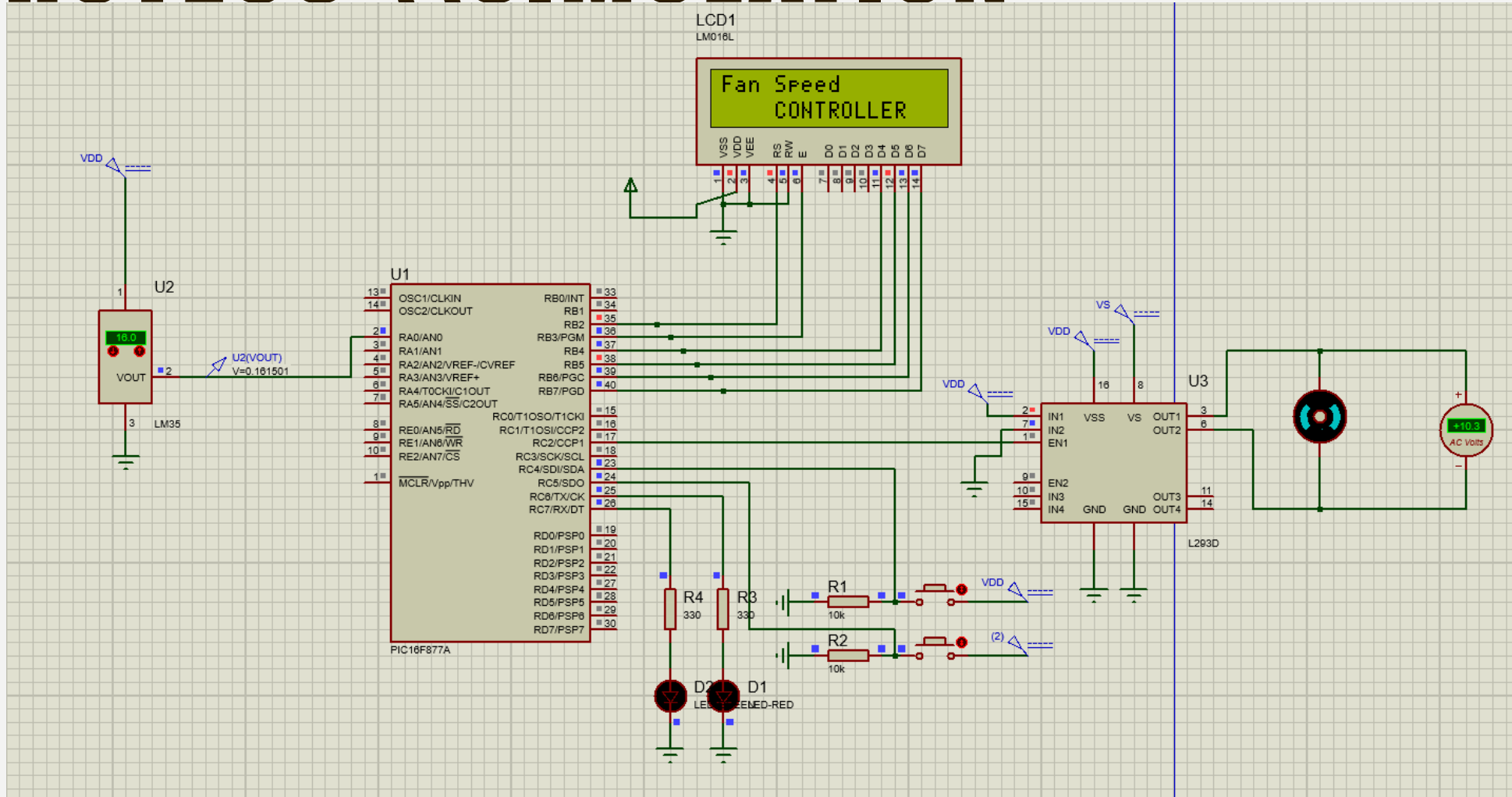
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<https://github.com/Mo7amednumair/FanSpeedController>



PROTEUS \ \SIMULATION

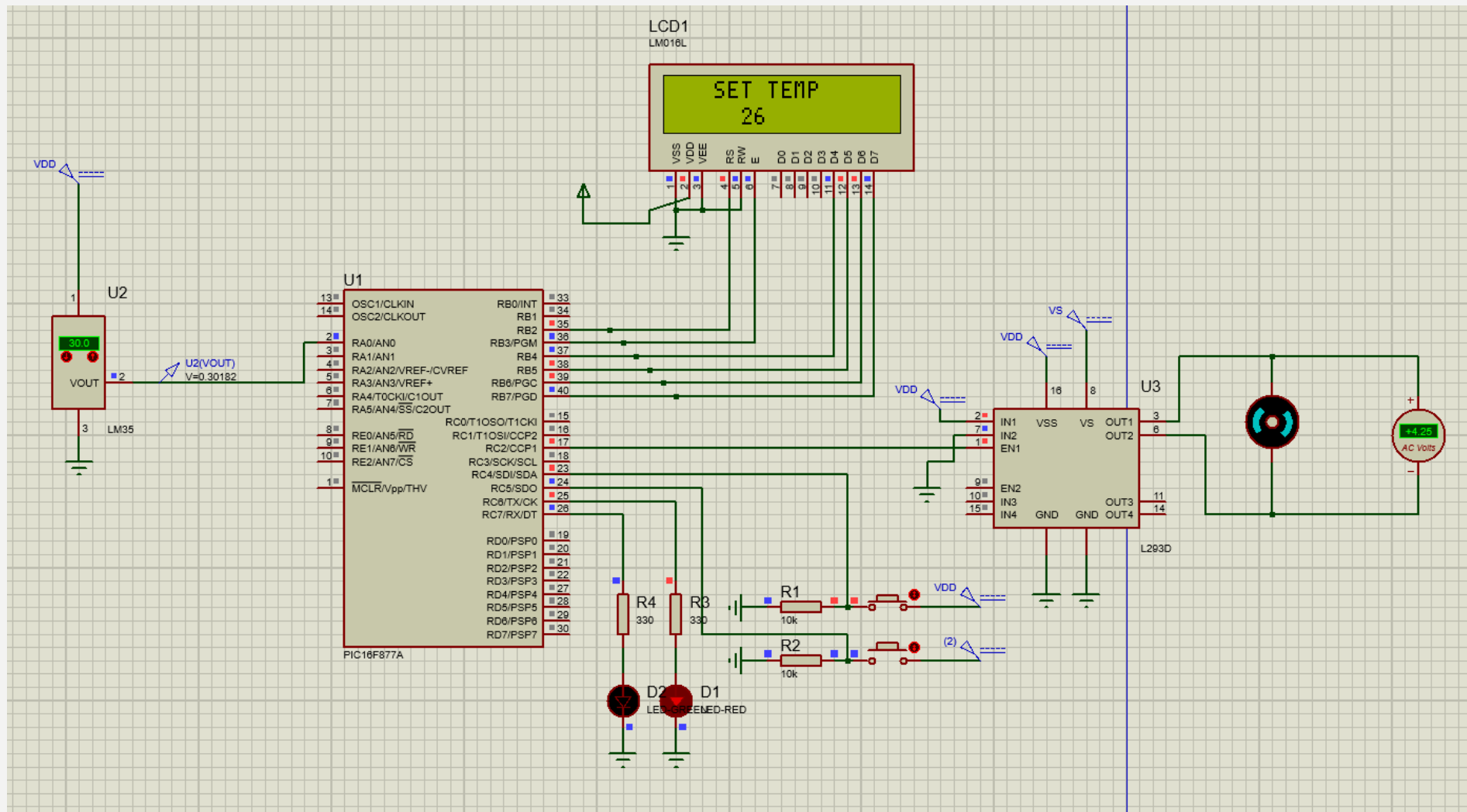


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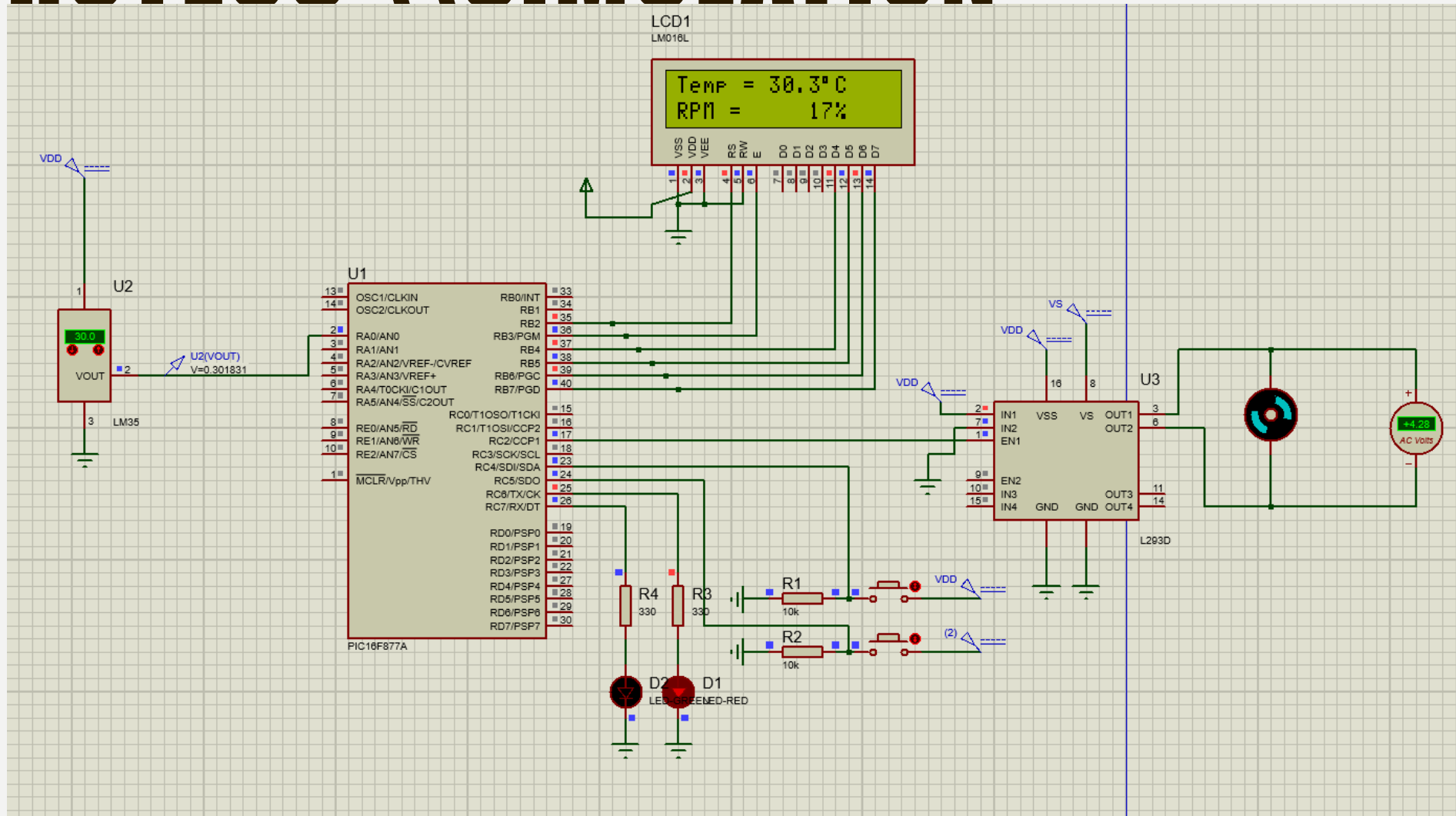
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DONE !!

