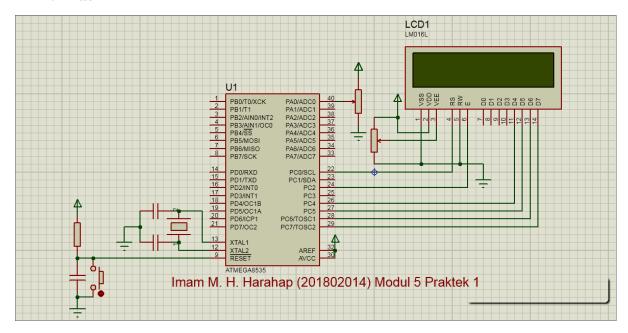
# Imam Muis Hamzah Harahap Praktik Pemograman ADC

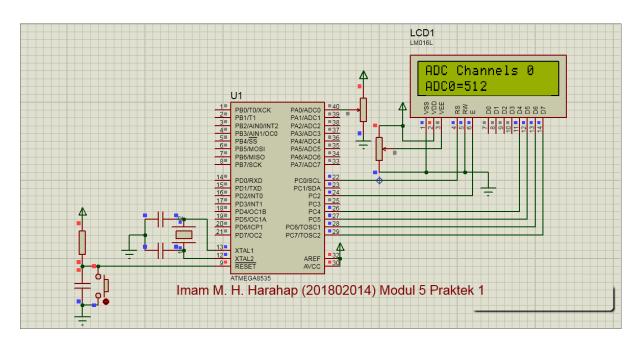
### 1. Program

```
Date
          : 04/10/2019
 2
    Author : Imam M. H. Harahap
 3
   | Company : Mekatronika Politeknik Enjinering Indorama
   | Comments: Modul 5 Praktek 1
 5
    *********************
 6
7
    //Program 1 : membaca ADC pada Channel 0
8
9
    #include <mega8535.h>
10
    #include <delay.h>
11
    #include <alcd.h>
12
    #include <stdio.h>
13
14
    unsigned int D;
15
    char str[10];
16
17 E void main(void) (
18
        ADCSRA=0B10000111;
19
        lcd_init(16);
20
        lcd_clear();
21
        lcd_putsf("ADC Channels 0");
        lcd_gotoxy(0,1);
22
23
        lcd_putsf("ADC0=");
24
25 🖨
        while (1){
26
          ADMUX=0B01000000;
27
           delay us(10);
28
          ADCSRA|=0B01000000;
29
          while ((ADCSRA & OBO0010000)==0);
30
          ADCSRA|=0B00010000;
31
32
          D=ADCW;
33
          sprintf(str,"%d ",D);
34
           lcd_gotoxy(5,1);
35
           lcd_puts(str);
           delay_ms(1000);
36
37
   38
```

## 2. Hasil



Rangkaian dalam keadaan standby



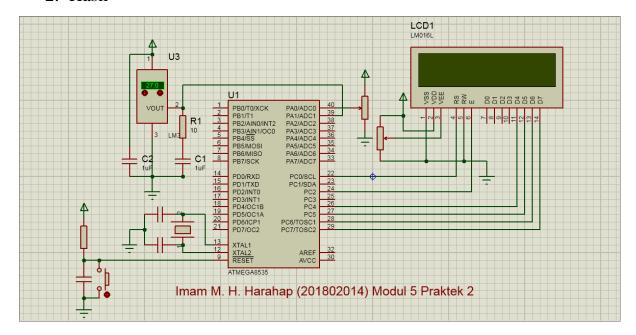
Rangkaian dalam keadaan running

#### Praktek Pemograman Sensor Suhu dengan LM-35

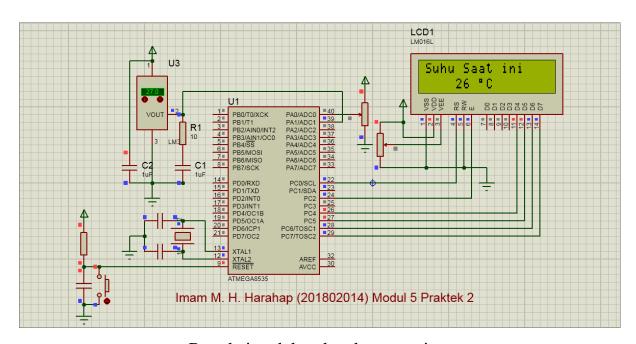
### 1. Program

```
Date
           : 27/09/2019
    Author : Imam M. H. Harahap
 3
 4
    Company : Mekatronika Politeknik Enjinering Indorama
    Comments: Modul 5 Praktek 2
 5
   6
7
    //Program 2 Sensor Suhu
8
9
10
   #include <mega8535.h>
11
    #include <delay.h>
12
    #include <alcd.h>
13
    #include <stdio.h>
14
15
    unsigned int D,V,T;
16
    char str[16];
17
18 | void main(void) (
19
       ADCSRA=0B10000111;
20
        lcd init(16);
21
       lcd clear();
22
       lcd putsf("Suhu Saat ini ");
23
        lcd gotoxy(7,1);
24
        lcd_putchar(0xdf);
25
26 日
        while (1){
27
          ADMUX=0B01000001;
28
          delay us(10);
29
          ADCSRA|=0B01000000;
30
          while ((ADCSRA & OBO0010000)==0);
31
          ADCSRA|=0B00010000;
32
33
          D=ADCW;
34
          V = D * 2.55;
35
          T=V/100;
36
          sprintf(str,"%d",T);
37
          lcd_gotoxy(4,1);
38
          lcd_puts(str);
39
          lcd_gotoxy(8,1);
          lcd_puts("C");
40
41
          delay_ms(1000);
42
43
```

# 2. Hasil



Rangkaian dalam keadaan standby



Rangkaian dalam keadaan running