```
#include "array_store.h"
 3
     uint32_t password_uid[32][2];
     int length_arr;
     void store_rfid(void)
 7
 8
       uint32_t uid;
9
       int check;
10
       eleventh_2_LCD();
11
       int z = get_password();
12
       if (z == 0 \times 00987654)
13
14
         uid = rfid_get_data();
15
         check = check_id(uid);
16
17
       else
18
19
         eighteenth_2_LCD();
20
         PWM_state1();
21
         delay_ms(1000);
22
         PWM_state0();
23
         return;
2.4
         }
25
       while (1)
26
27
         if (uid == 0 \times 000000000)
28
29
            fourth_2_LCD();
30
            delay_ms(1000);
31
           return;
32
33
         else if (check)
34
35
           third_2_LCD();
36
           delay_ms(1000);
37
           seventh_2_LCD();
38
           int x;
           while (1)
39
40
41
              x = read_key();
42
              if (x == 0x31 | x == 0x32)
43
               break;
44
              delay_ms(300);
45
           if (x == 0x31)
46
47
48
                int i = 0;
49
                for (i = 0; i < 32; i++)
50
51
                  if (password_uid[i][1] == uid)
52
                    break;
53
54
                password_uid[i][0] = 0 \times 0000000000;
55
                password\_uid[i][1] = 0x000000000;
56
                for (int d = i; d < 31; d++)
57
58
                password_uid[d][0] = password_uid[d+1][0];
59
                password_uid[d][1] = password_uid[d+1][1];
60
                length_arr--;
61
62
                return;
63
           else if ( x == 0x32)
65
66
              return;
67
68
69
         else if (!check)
70
           break;
71
72
       fifth_2_LCD();
73
       send_full(uid);
```

Page 1

open =  $ADC1_{read(0x1)}$ ;

if (open)

Page 2

145

146

```
C:\Users\Talha\Dropbox\lab3_1\array_store.c
 147
                  break;
 148
 149
              if (open)
 150
 151
                sixteenth_2_LCD();
 152
                delay_ms(500);
                set_time_out(400000);
 153
 154
                PWM_state2();
 155
                while(!timed_out())
 156
 157
 158
                PWM_state0();
 159
 160
              else if (!open)
 161
                fifteenth_2_LCD();
 162
 163
 164
            }
 165
            else
 166
 167
              fourteenth_2_LCD();
 168
              PWM_state1();
 169
              delay_ms(1000);
 170
              PWM_state0();
 171
 172
 173
          delay_ms(1000);
 174
 175
       void storing(void)
 176
 177
         page_program(*password_uid, length_arr);
 178
 179
       void read_flash(void)
 180
 181
          uint32_t array[64];
 182
          page_read(array);
 183
          for (int i = 0; i < 32; i++)
 184
 185
            for (int j = 0; j < 2; j++)
 186
              password_uid[i][j] = array[(2*i) + j];
 187
 188
 189
 190
          int x;
 191
          for (x = 0; x < 32; x++)
 192
 193
            if (password_uid[x][1] == 0xFFFFFFFF)
 194
                break;
 195
 196
          length_arr = x;
```

void user(void)

seventeenth\_2\_LCD();

Data\_2\_LCD(length\_arr + 0x30);