12/26/24, 1:31 PM about:blank

```
#include <Wire.h>
2 #include <EEPROM.h>
   #include <RTClib.h>
4 #include <LiquidCrystal.h>
6 LiquidCrystal lcd(3,4,5,6,7,8);
   RTC_DS1307 RTC;
8 int temp, inc, hours1, minut, add = 11;
9
   int next = A0;
10 int INC = A1;
   int set_mad = A2;
11
12
13
    #define buzzer A6
14
15
    int HOUR, MINUT, SECOND;
16
17
    void setup() {
18 Wire.begin();
19
      RTC.begin();
20
      lcd.begin(16, 2);
21
      pinMode(INC, INPUT);
22
      pinMode(next, INPUT);
23
      pinMode(set_mad, INPUT);
24
      pinMode(buzzer, OUTPUT);
25
26
      lcd.setCursor(0, 0);
      lcd.print("Medicin reminder");
27
28
      lcd.setCursor(0, 1);
      lcd.print(" Using Arduino
29
30
      delay(2000);
31
      if (!RTC.isrunning()) {
32
        RTC.adjust(DateTime(__DATE__, __TIME__));
33
      }
34 }
35
36
    void loop() {
37
      int temp = 0, val = 1, temp4;
38
      DateTime now = RTC.now();
39
      if (digitalRead(set_mad) == 0)
40
41
        lcd.setCursor(0, 0);
42
        lcd.print(" Set Medicine ");
43
        lcd.setCursor(0, 1);
44
        lcd.print(" Reminder time ");
45
        delay(2000);
46
        lcd.clear();
47
        lcd.setCursor(0, 0);
48
        lcd.print("Enter Time 1");
49
        defualt();
50
        time(1);
51
        delay(1000);
52
        lcd.clear();
53
        lcd.setCursor(0, 0);
        lcd.print("Enter Time 2");
54
55
        defualt();
        delay(1000);
56
57
        time(2);
58
        lcd.clear();
59
        lcd.setCursor(0, 0);
60
        lcd.print("Enter Time 3");
61
        defualt();
62
        time(3);
63
        lcd.setCursor(0, 0);
        lcd.print("Medicin reminder");
64
65
        lcd.setCursor(0, 1);
        lcd.print(" time has set ");
66
67
        delay(2000);
68
69
      lcd.clear();
```

about:blank 1/4

```
lcd.setCursor(0, 0);
70
71
      lcd.print("Time:");
72
      lcd.setCursor(6, 0);
      lcd.print(HOUR = now.hour(), DEC);
73
74
      lcd.print(":");
75
      lcd.print(MINUT = now.minute(), DEC);
76
      lcd.print(":");
      lcd.print(SECOND = now.second(), DEC);
77
      lcd.setCursor(0, 1);
78
79
      lcd.print("Date: ");
80
      lcd.print(now.day(), DEC);
81
      lcd.print("/");
82
      lcd.print(now.month(), DEC);
83
      lcd.print("/");
84
      lcd.print(now.year(), DEC);
85
      match();
86
      delay(200);
87
88
89
    void defualt() {
90
    lcd.setCursor(0, 1);
91
      lcd.print(HOUR);
92
      lcd.print(":");
93
      lcd.print(MINUT);
94
      lcd.print(":");
95
      lcd.print(SECOND);
96 }
97
    void time(int x) {
      int temp = 1, minuts = 0, hours = 0, seconds = 0;
98
99
      while (temp == 1) {
100
         if (digitalRead(INC) == 0) {
101
           HOUR++;
102
           if (HOUR == 24) {
            HOUR = 0;
103
104
105
           while (digitalRead(INC) == 0)
106
107
108
        lcd.clear();
109
        lcd.setCursor(0, 0);
110
        lcd.print("Enter Time ");
111
         lcd.print(x);
112
        lcd.setCursor(0, 1);
113
         lcd.print(HOUR);
114
        lcd.print(":");
115
         lcd.print(MINUT);
116
        lcd.print(":");
117
        lcd.print(SECOND);
118
         delay(100);
         if (digitalRead(next) == 0) {
119
120
           hours1 = HOUR;
121
           EEPROM.write(add++, hours1);
122
           temp = 2;
123
           while (digitalRead(next) == 0)
124
125
126
127
      while (temp == 2) {
128
         if (digitalRead(INC) == 0) {
129
           MINUT++;
130
           if (MINUT == 60) { MINUT = 0; }
131
           while (digitalRead(INC) == 0)
132
133
134
        lcd.clear();
135
         lcd.setCursor(0, 0);
136
        lcd.print("Enter Time ");
137
         lcd.print(x);
138
        lcd.setCursor(0, 1);
```

about:blank 2/4

```
139
        lcd.print(HOUR);
140
        lcd.print(":");
141
        lcd.print(MINUT);
142
        lcd.print(":");
143
        lcd.print(SECOND);
144
        delay(100);
145
        if (digitalRead(next) == 0) {
146
        minut = MINUT;
147
          EEPROM.write(add++, minut);
148
          temp = 0;
149
          while (digitalRead(next) == 0)
150
151
        }
152
      }
153
      delay(1000);
154 }
155 void match() {
156 int tem[17];
157
      for (int i = 11; i < 17; i++) {
158
        tem[i] = EEPROM.read(i);
159
160
     if (HOUR == tem[11] && MINUT == tem[12]) {
161
        beep();
162
        beep();
163
        beep();
164
        beep();
165
        lcd.setCursor(0, 0);
166
        lcd.print(" Take Group One ");
167
        lcd.setCursor(0, 1);
168
        lcd.print(" Medicine ");
169
        beep();
170
        beep();
171
        beep();
172
        beep();
173
      }
174
175
      if (HOUR == tem[13] && MINUT == tem[14]) {
176
     beep();
        beep();
177
178
        beep();
179
        beep();
180
        lcd.setCursor(0, 0);
181
        lcd.print(" Take Group Two
                                      ");
182
        lcd.setCursor(0, 1);
                                      ");
183
        lcd.print("
                         Medicine
184
        beep();
185
        beep();
186
        beep();
187
        beep();
188
     }
189
190
191
      if (HOUR == tem[15] && MINUT == tem[16]) {
192
        beep();
193
        beep();
194
        beep();
195
        beep();
196
        lcd.setCursor(0, 0);
197
        lcd.print("Take Group Three ");
198
        lcd.setCursor(0, 1);
                                     ");
199
        lcd.print("
                         Medicine
200
        beep();
201
        beep();
202
        beep();
203
        beep();
204
      }
205 }
206
207 void beep() {
```

about:blank 3/4

12/26/24, 1:31 PM about:blank

```
digitalWrite(buzzer, HIGH);
delay(500);
digitalWrite(buzzer, LOW);
digitalWrite(buzzer, LOW);
delay(500);
}
```

about:blank 4/4