

```

#include <LiquidCrystal.h>

//*****panggilan
program*****
*****

#include "RTClib.h"

#include <Time.h>

#include <TimeAlarms.h>

int relay = 13;

int belltime = 1;

int tunda = 2;

int setAlarm();

RTC_DS1307 RTC;

int hur[2], minu[2], secon[2];

char daysOfTheWeek[7][12] = {" AHAD ", "SENIN ", "SELASA", "
RABU ", "KAMIS ", "JUMAT", "SABTU "};

boolean blink = false;

#include <Wire.h>

#include <LiquidCrystal_I2C.h>

LiquidCrystal_I2C lcd(0x3F, 16, 2);

void setup(){

    Serial.begin (9600);

    lcd.begin (16,2); // LCD 16x2

    lcd.backlight();

    lcd.init();

    pinMode(relay, OUTPUT);

    Wire.begin();

```

```

    RTC.begin();

    RTC_DS1307 RTC;

    RTC.adjust(DateTime(F(__DATE__), F(__TIME__)));

    if

    (! RTC.isrunning()) {

        Serial.println("RTC is NOT running!");

        // following line sets the RTC to the date & time this
        sketch was compirelay

        RTC.adjust(DateTime(__DATE__, __TIME__));

    }

//*****
*****pengenalan pembuat
TA*****

    lcd.setCursor(0, 0);

    lcd.print("Pengharum Ruang");

    lcd.setCursor(0, 1);

    lcd.print("      Feby ");

    delay(10000);

    lcd.clear();

}

//*****
*program
utama*****

void loop () {

    DateTime now = RTC.now();

    setTime(now.hour(), now.minute(), now.second(), now.day(),
    now.month(), now.year()); // set time & date

```

```
lcd.setCursor(0, 0);

lcd.print(daysOfTheWeek[now.dayOfTheWeek()]);

lcd.print(":");

    Serial.print(now.day(), DEC);

Serial.write('/');

lcd.print(now.day(), DEC);

lcd.write('/');

lcd.print(now.month(), DEC);

lcd.write('/');

Serial.print(now.month(), DEC);

Serial.write('/');

lcd.print(now.year(), DEC);

lcd.write(' ');

Serial.print(now.year(), DEC);

Serial.write(' ');

lcd.setCursor(0, 1);

lcd.print("TIME : ");

lcd.setCursor(7, 1);

Serial.print(now.hour(), DEC);

lcd.print(now.hour(), DEC);

Serial.print(':');

lcd.write(':');

Serial.print(now.minute(), DEC);

lcd.print(now.minute(), DEC);
```

```

    lcd.write(':');

    Serial.print(':');

    lcd.print(now.second(), DEC);

    lcd.write("  ");

    Serial.print(now.second(), DEC);

    Serial.println();

//waktu pengharum ruangan hidup

    if ( now.hour() == 8 && now.minute() == 35) {

        digitalWrite(relay, HIGH);

    }

//waktu pengharum ruangan mati

    if ( now.hour() == 18 && now.minute() == 0 ) {

        digitalWrite(relay, LOW);

    }

    if (weekday() == 7)  {

        if ( now.hour() == 0 && now.minute() == 0 ) {

            digitalWrite(relay, LOW);

        }

    }

    if (weekday() == 1) { if ( now.hour() == 0 && now.minute() ==
0 ) {

        digitalWrite(relay, LOW);

    }

}

}

```

