```
#include <ESP8266WiFi.h>
#include <WiFiClientSecure.h>
#include <UniversalTelegramBot.h>
#include <DFPlayer_Mini_Mp3.h>
#include <SoftwareSerial.h>
SoftwareSerialmp3Serial(D1, D2); // RX, TX

#include <Wire.h>  // This library is already built in to the Arduino IDE
#include <LiquidCrystal_I2C.h> //This library you can add via Include Library > Manage Library >
LiquidCrystal_I2C lcd(0x27, 16, 2);
#define selenoid D0
#define sen1 D5
#define sen2 D6

//inisialasi id dan password wifi yang akanterhubung
charssid[] = "Akbar";
char password[] = "akbar123";

// Initialize Telegram BOT
//#define BOTtoken "667033974:AAFqfBYDcw_EZ0UCfOewVgS0gnh9uoiHO20"
#define BOTtoken "809194038:AAGJ2bEADlHUOm7i_3vq3w_wNo7i_48rijA"

//String chat_id = "702743900";
String chat_id = "601399403";
WiFiClientSecure client;

UniversalTelegramBotbot(BOTtoken, client);
```

```
intBot_mtbs = 1000;
longBot_lasttime;
bool Start = false;

voidbaca_sensor(){
int baca_sen1 = digitalRead(sen1);
int baca_sen2 = digitalRead(sen2);
lcd.setCursor(4,0);  lcd.print(baca_sen1);
lcd.setCursor(11,0);  lcd.print(baca_sen2);
delay(100);
if (baca_sen1==0 && baca_sen2==0)
 {
lcd.clear();
lcd.setCursor(0,0);
lcd.print("    ADA TAMU");
lcd.setCursor(0,1);
lcd.print("SILAHKAN TUNGGU");
delay(3000);
lcd.clear();
  mp3_play (2);       //play suara 2, tunggusebentar
delay(3000);
  String pesan = " AdaTamuDatang";
pesan += " SilahkanMembukaAplikasi EZVIC \n";
pesan += " SilahkanPilihperintahdibawahini \n";
pesan += "/bukakunci : untukmembukakuncipintu \n";
pesan += "/sibuk : untukmemberitahukeadaansibuk \n";
bot.sendMessage(chat_id, pesan, "");
delay(1000);
  }
```

```
else{
lcd.setCursor(0,1);
lcd.print("SENSOR STAND BY");
delay(500);

 }

}
voidbaca_telegram(){
if (millis() >Bot_lasttime + Bot_mtbs)  {
intnumNewMessages = bot.getUpdates(bot.last_message_received + 1);
while(numNewMessages) {
Serial.println("got response");
handleNewMessages(numNewMessages);
numNewMessages = bot.getUpdates(bot.last_message_received + 1);
   }
Bot_lasttime = millis();
 }
}
voidhandleNewMessages(intnumNewMessages) {
Serial.println("handleNewMessages");
Serial.println(String(numNewMessages));
for (int i=0; i<numNewMessages; i++) {
   String chat_id = String(bot.messages[i].chat_id);
   String text = bot.messages[i].text;

if (text == "/bukakunci") {    //kuncipintudibuka
lcd.clear();
lcd.setCursor(0, 0);
```

```
lcd.print("KUNCI PINTU TERBUKA ");
delay(2000);
bot.sendMessage(chat_id, "KunciPintutelahterbuka, silahkanmasuk", "");
delay(1000);
digitalWrite(selenoid,HIGH);
delay(4000);
lcd.clear();
    mp3_play(1);   //play suarasilahkanmasuk
delay(5000);
digitalWrite(selenoid,LOW);
delay(1000);
 }
else if (text == "/sibuk") {
lcd.clear();
lcd.setCursor(0, 0);
lcd.print("MAAF SEDANG SIBUK ");
delay(2000);
    mp3_play(3);    // play suarasedangsibuk
delay(5000);
bot.sendMessage(chat_id, "Keadaansibuktelahdiberitahu", "");
delay(1000);
lcd.clear();}
 }
}

void setup() {
pinMode(sen1,INPUT);
pinMode(sen2,INPUT);
```

```
pinMode(selenoid,OUTPUT);
 //lcd
Wire.begin(D4,D3);
lcd.begin();
lcd.setBacklight(255); // Enable or Turn On the backlight
lcd.clear();
// esp 2866 koneksikewifi
Serial.begin(115200);

Serial.println("Setting up software serial");
 mp3Serial.begin (9600);
Serial.println("Setting up mp3 player");
 mp3_set_serial (mp3Serial);
delay(1000);
 mp3_set_volume (10);

Serial.print("Connecting Wifi: ");
Serial.println(ssid);
WiFi.begin(ssid, password);
lcd.setCursor(0, 0);
lcd.print("  KONEKSI WIFI");
lcd.setCursor(0, 1);
while (WiFi.status() != WL_CONNECTED) {
lcd.print(".");
Serial.print(".");
delay(500);
 }
lcd.clear();
lcd.setCursor(0, 0);
```

```
lcd.print(" KONEKSI SUKSES");
lcd.setCursor(0, 1);
lcd.print(" KE WIFI ");
lcd.setCursor(9, 1);
lcd.print(ssid);
Serial.println("");
Serial.println("WiFi connected");
Serial.print("IP address: ");
Serial.println(WiFi.localIP());


  //perintahmengirimkanpesanketelegramberupapemberitahuanawalpilihan menu kendali
   String welcome = "SelamatDatang di channel PenerimaTamudengan IOT danKamera \n";
welcome += "Iniadalah Menu SistemPenerimaTamu \n\n";
welcome += "/bukakunci : untukmembukakuncipintu \n";
welcome += "/sibuk : untukmemberitahukeadaansibuk \n";
bot.sendMessage(chat_id, welcome, "");
delay(1000);
lcd.clear();
lcd.setCursor(0, 0);
lcd.print("PENERIMA TAMU IOT");
lcd.setCursor(0, 1);
lcd.print("KAMERA WIRELESS");
delay(2000);
lcd.clear();
}

void loop() {
```

```
baca_sensor();
baca_telegram();
}
```