

```

#include <Keypad.h>
#include <LiquidCrystal.h>
#define infrared 13
#define sound 12
#define rain 11
#define motor 10

LiquidCrystal lcd(A5, A4, A3, A2, A1, A0);
const byte JmlBaris = 4; // 4 baris
const byte JmlKolom = 3; //3 kolom
char keys[JmlBaris][JmlKolom] = {
    {'1','2','3'},
    {'4','5','6'},
    {'7','8','9'},
    {'*','0','#'}
};
//hubungkan pin baris keypad dengan pin arduino
byte PinBaris[JmlBaris] = {3, 2, 1, 0};
// hubungkan pin kolom keypad dengan pin arduino
byte PinKolom[JmlKolom] = {4, 5, 6};
int count=0;
int sandi[4];
Keypad keypad = Keypad(makeKeymap(keys), PinBaris, PinKolom, JmlBaris, JmlKolom );

void setup(){
    lcd.begin(16,2);
    pinMode(infrared, INPUT);
    pinMode(sound, INPUT);
    pinMode(rain, INPUT);
    pinMode(motor, OUTPUT);
}

void loop()
{
    int infraredlogic = digitalRead(infrared);
    int soundsensor = digitalRead(sound);
    int rainsensor = digitalRead(rain);
    if(infraredlogic == LOW){
        lcd.clear();
        lcd.print("Infrared OFF");
        digitalWrite(motor, LOW);
        delay(1000);
    }
    else if (count == 0){
        lcd.clear();
        lcd.print("Input PIN: ");
        delay(100);
    }
    if(infraredlogic == HIGH){
        char key = keypad.getKey();//cek jika tombol ditekan
        sandi[count] = key;
        if (key != NO_KEY)
        {
            lcd.print(key); //cetak ke LCD

```

```
count++; //pindahkan karakter kebaris lcd berikutnya setelah penekanan tombol
if(count == 4){
    if(sandi[0] == '1' && sandi[1] == '1' && sandi[2] == '1' && sandi[3] == '1'){
        lcd.clear();
        lcd.print("correct");
        delay(300);
        lcd.clear();
        lcd.print("Cek Suara");
        delay(500);
        lcd.clear();
        if(soundsensor == HIGH){
            lcd.print("Sesuai");
            delay(500);
            lcd.clear();
            lcd.print("Pintu Terbuka");
            digitalWrite(motor, HIGH);
            delay(300);
            lcd.clear();
            if(rainsensor == HIGH){
                lcd.print("Pemanas ON");
                delay(1000);
                lcd.clear();
                count = 0;
            }
            else if(rainsensor == LOW){
                lcd.print("Pemanas OFF");
                delay(1000);
                lcd.clear();
                count = 0;
            }
        }
        else if(soundsensor == LOW){
            lcd.print("Tidak Sesuai");
            digitalWrite(motor, LOW);
            delay(1000);
            lcd.clear();
            count = 0;
        }
    }
}
else{
    lcd.clear();
    lcd.print("incorrect");
    digitalWrite(motor, LOW);
    delay(300);
    lcd.clear();
    count = 0;
}
```