

LAMPIRAN

Source code:

```
#include <Adafruit_PCD8544.h>

Adafruit_PCD8544 display = Adafruit_PCD8544( 5, 4, 3);

int contrast=60;

int sf1 = A0;

int sf2 = A1;

int sf3 = A2;

int sf4 = A3;

int sf5 = A4;

int i = 1;

int dbjarikelingking = 0;

int dbjarimanis = 1;

int dbjaritengah = 2;

int dbjaritelunjuk = 3;

int dbibujari = 4;
```

```
int sensorValue1 = 0;
```

```
int sensorValue2 = 0;
```

```
int sensorValue3 = 0;
```

```
int sensorValue4 = 0;
```

```
int sensorValue5 = 0;
```

```
int sf1state = 0;
```

```
int sf2state = 0;
```

```
int sf3state = 0;
```

```
int sf4state = 0;
```

```
int sf5state = 0;
```

```
int lockmenucustom = 0;
```

```
int lockstart = 0;
```

```
const char db0[] PROGMEM = "selamat pagi";
```

```
const char db1[] PROGMEM = "selamat siang";
```

```
const char db2[] PROGMEM = "selamat malam";
```

```
const char db3[] PROGMEM = "saya ingin ke toilet";
```

```
const char db4[] PROGMEM = "saya lapar";
```

```
const char db5[] PROGMEM = "saya ingin makan";
```

```
const char db6[] PROGMEM = "saya tidak enak badan";

const char db7[] PROGMEM = "saya mau tidur";

const char db8[] PROGMEM = "nama kamu siapa";

const char db9[] PROGMEM = "sekarang jam berapa";

const char db10[] PROGMEM = "saya mau mandi";

const char db11[] PROGMEM = "senang berkenalan dengan anda";

const char db12[] PROGMEM = "bagaimana kabar kamu";

const char db13[] PROGMEM = "kabar saya baik";

const char db14[] PROGMEM = "saya kurang sehat";

const char db15[] PROGMEM = "kamu dimana";

const char db16[] PROGMEM = "saya ingin liburan";

const char db17[] PROGMEM = "saya sedang sibuk";

const char db18[] PROGMEM = "saya bisa membantu";

const char db19[] PROGMEM = "berapa harga barang ini";

const char db20[] PROGMEM = "tolong bantu saya";

const char db21[] PROGMEM = "hari ini hari apa";

const char db22[] PROGMEM = "bulan berapa sekarang";

const char db23[] PROGMEM = "boleh minta menunya";

const char db24[] PROGMEM = "password wifinya apa";
```

```
const char db25[] PROGMEM = "kamu berangkat naik apa";  
  
const char db26[] PROGMEM = "saya berangkat naik mobil";  
  
const char db27[] PROGMEM = "saya berangkat naik motor";  
  
const char db28[] PROGMEM = "usia kamu berapa";  
  
const char db29[] PROGMEM = "kamu bekerja dimana";  
  
  
  
const char db30[] PROGMEM = "baiklah";  
  
const char db31[] PROGMEM = "ini apa";  
  
const char db32[] PROGMEM = "silahkan masuk";  
  
const char db33[] PROGMEM = "saya tidak mengerti";  
  
const char db34[] PROGMEM = "saya paham maksud anda";  
  
const char db35[] PROGMEM = "selamat ulang tahun";  
  
const char db36[] PROGMEM = "saya ingin sholat";  
  
const char db37[] PROGMEM = "disini dilarang merokok";  
  
const char db38[] PROGMEM = "hati-hati dijalan";  
  
const char db39[] PROGMEM = "saya sangat lelah";  
  
  
  
const char db40[] PROGMEM = "dimana remote ac";  
  
const char db41[] PROGMEM = "dimana remote tv";  
  
const char db42[] PROGMEM = "saya suka makanan ini";  
  
const char db43[] PROGMEM = "saya tidak suka makanan ini";
```

```

const char db44[] PROGMEM = "apa hobi kamu";

const char db45[] PROGMEM = "terima kasih atas bantuannya";

const char db46[] PROGMEM = "maaf merepotkan";

const char db47[] PROGMEM = "saya sayang kamu";

const char db48[] PROGMEM = "saya kepanasan";

const char db49[] PROGMEM = "saya kedinginan";

const char * const database[] PROGMEM = {

    db0, db1, db2, db3, db4, db5, db6, db7, db8, db9,

    db10, db11, db12, db13, db14, db15, db16, db17, db18, db19,

    db20, db21, db22, db23, db24, db25, db26, db27, db28, db29,

    db30, db31, db32, db33, db34, db35, db36, db37, db38, db39,

    db40, db41, db42, db43, db44, db45, db46, db47, db48, db49,

    };

void setup() {

    display.begin();

    display.setContrast(contrast); //Set contrast to 50

    display.clearDisplay();

    display.display();

```

```
}
```

```
void loop(){
```

```
    sensorValue1 = analogRead(sf1);
```

```
    sensorValue2 = analogRead(sf2);
```

```
    sensorValue3 = analogRead(sf3);
```

```
    sensorValue4 = analogRead(sf4);
```

```
    sensorValue5 = analogRead(sf5);
```

```
    display.setCursor(15, 0);
```

```
    display.print("MAIN MENU");
```

```
    display.drawFastHLine(0,10,83,BLACK);
```

```
    display.setCursor(0, 15);
```

```
    display.setCursor(0,14);
```

```
    display.print("> Start");
```

```
    display.setCursor(0,22);
```

```
    display.print(" translate");
```

```
display.setCursor(0,32);  
  
display.print("> Custom");  
  
display.setCursor(0,40);  
  
display.print(" sentence");  
  
display.display();
```

```
if(sf2state == 1){  
  
display.setCursor(66,14);  
  
display.print("<<");  
  
display.display();}
```

```
if(sf3state == 1){  
  
display.setCursor(66,32);  
  
display.print("<<");  
  
display.display();}
```

```
if(sensorValue2<=150){sf2state = 1;sf3state = 0;display.clearDisplay();}
```

```
if(sensorValue3<=150){sf2state = 0;sf3state = 1;display.clearDisplay();}
```

```
if(sf3state == 1 && sensorValue4 <= 150){display.clearDisplay();lockmenucustom =  
1;i=0;delay(500);}
```

```
if(sf2state == 1 && sensorValue4 <= 150){display.clearDisplay();lockstart = 1;delay(500);}
```

```
while(lockmenucustom==1){

sensorValue1 = analogRead(sf1);

sensorValue2 = analogRead(sf2);

sensorValue3 = analogRead(sf3);

sensorValue4 = analogRead(sf4);

sensorValue5 = analogRead(sf5);

if(sensorValue3 <= 150){

display.setCursor(0,0);

display.print((__FlashStringHelper *)pgm_read_word(&database[i++]));

display.display();

display.clearDisplay();

if(i==50){i=0;}

delay(500);}

if(sensorValue1 <= 150 ){dbjarikelingking=i;

display.setCursor(0,25);

display.print("kelingking set");

display.display();
```



```
delay(700);

display.clearDisplay();

lockmenucustom=0;

break;}

if(sensorValue2 <= 150){dbjarimanis=i;

display.setCursor(0,25);

display.print("manis set");

display.display();

delay(700);

display.clearDisplay();

lockmenucustom=0;

break;}

if(sensorValue2 <= 150){dbjarimanis=i;

display.setCursor(0,25);

display.print("tengah set");

display.display();

delay(700);

display.clearDisplay();

lockmenucustom=0;

break;}

if(sensorValue4 <= 150){dbjaritelunjuk=i;
```

```
display.setCursor(0,25);

display.print("telunjuk set");

display.display();

delay(700);

display.clearDisplay();

lockmenucustom=0;

break;}

if(sensorValue5 <= 200){dbibujari=i;

display.setCursor(0,25);

display.print("ibu set");

display.display();

delay(700);

display.clearDisplay();

lockmenucustom=0;

break;}

}

while(lockstart == 1){

sensorValue1 = analogRead(sf1);
```

```
sensorValue2 = analogRead(sf2);
```

```
sensorValue3 = analogRead(sf3);
```

```
sensorValue4 = analogRead(sf4);
```

```
sensorValue5 = analogRead(sf5);
```

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

```
display.print("Begin");
```

```
display.setCursor(0,9);
```

```
display.print("translating");
```

```
display.display();
```

```
if(sensorValue1 <= 150){
```

```
    display.clearDisplay();
```

```
    display.setCursor(0,25);
```

```
    display.print((__FlashStringHelper *)pgm_read_word(&database[dbjarikelingking-1]));
```

```
    display.display();
```

```
}
```

```
if(sensorValue2 <= 150){
```

```
    display.clearDisplay();
```

```
    display.setCursor(0,25);
```

```
    display.print((__FlashStringHelper *)pgm_read_word(&database[dbjarimanis-1]));
```

```

    display.display();

}

if(sensorValue3 <= 150){

    display.clearDisplay();

    display.setCursor(0,25);

    display.print((__FlashStringHelper *)pgm_read_word(&database[dbjaritengah-1]));

    display.display();

}

if(sensorValue4 <= 150){

    display.clearDisplay();

    display.setCursor(0,25);

    display.print((__FlashStringHelper *)pgm_read_word(&database[dbjaritelunjuk-1]));

    display.display();

}

if(sensorValue5 <= 200){

    display.clearDisplay();

    display.setCursor(0,25);

    display.print((__FlashStringHelper *)pgm_read_word(&database[dbibujari-1 ]));

    display.display();

}

```

```
if(sensorValue1 <= 150 && sensorValue2 <=
150){display.clearDisplay();lockstart=0;break;}

}

}
```