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#include <LiquidCrystal_PCF8574.h>
#include <Servo.h>

LiquidCrystal_PCF8574 lcd(0x27);
//LiquidCrystal_PCF8574 lcd(0x3F);

int pin_coin_10 = 10; //กำหนดขาเขนเซอร์นับเหรียญ
int state_coin_10 =0;

boolean check_coin_10 = false;

int count_coin_10 = 0;

int buttonsw_1 = 1;
boolean chk_sw1 = true;
int pin_sw1 = 2;

int buttonsw_2 = 1;
boolean chk_sw2 = true;
int pin_sw2 = 3;

int buttonsw_ok = 1;
boolean chk_sw3 = true;
int pin_swok = 4;

int buttonsw_cancel = 1;
boolean chk_sw4 = true;
int pin_swcancel = 5;

boolean menu1_select = false;
boolean menu2_select = false;
```

```
Servo myservo1;

void setup() {
    Serial.begin(9600);
    lcd.begin(16, 2);          // เปิดใช้งาน lcd
    lcd.setBacklight(255);      // เปิดไฟ backlight
    lcd.setCursor(0,0);
    lcd.print("0123456789101112");
    lcd.setCursor(4,1);
    lcd.print("My lcd..!");
}

pinMode(pin_coin_10, INPUT);

pinMode(pin_sw1, INPUT_PULLUP);
pinMode(pin_sw2, INPUT_PULLUP);
pinMode(pin_swok, INPUT_PULLUP);
pinMode(pin_swcancel, INPUT_PULLUP);

myservo1.attach(6);
myservo1.write(90);
}

void loop() {
    if(count_coin_10 == 0){
        lcd.clear();
        lcd.setCursor(0,0);
        lcd.print("Insert coin");
        lcd.setCursor(0,1);
        lcd.print("Get coin 10B");
    }
}
```

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sensor_coin();

}else if(count_coin_10 == 1){

lcd.clear();

lcd.setCursor(0,0);

lcd.print("Insert coin");

lcd.setCursor(0,1);

lcd.print("coin balance 1");

sensor_coin();

}else{

select_menu();

//lcd.clear();

//lcd.setCursor(0,0);

//lcd.print("select menu");

}

delay(50);

}

```

```

void sensor_coin(){

state_coin_10 = digitalRead(pin_coin_10);

if(check_coin_10 == false && state_coin_10 == 1){

count_coin_10 += 1;

check_coin_10 = true;

}else{

if (state_coin_10 == 0){

check_coin_10 = false;

}

}

}

void select_menu(){

buttonsw_1 = digitalRead(pin_sw1);

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```
buttonsw_2 = digitalRead(pin_sw2);
buttonsw_ok = digitalRead(pin_swok);
buttonsw_cancel = digitalRead(pin_swcancel);
Serial.print(buttonsw_1);
Serial.print(buttonsw_2);
Serial.print(buttonsw_ok);
Serial.println(buttonsw_cancel);
if(menu1_select == true || menu2_select == true){

}else{
    lcd.clear();
    lcd.setCursor(0,0);
    lcd.print("Select menu");
    lcd.setCursor(0,1);
    lcd.print("1.pepsi 2.coke");
}

if(buttonsw_1 == 0 && count_coin_10 >= 2){
    menu1_select = true;
    menu2_select = false;
    lcd.clear();
    lcd.setCursor(0,0);
    lcd.print("You Choose");
    lcd.setCursor(3,1);
    lcd.print("1.pepsi");
    delay(2000);
}

if(buttonsw_2 == 0 && count_coin_10 >= 2){
    menu1_select = false;
    menu2_select = true;
    lcd.clear();
    lcd.setCursor(0,0);
```

```
lcd.print("You Choose");

lcd.setCursor(3,1);

lcd.print("2.coke");

delay(2000);

}

if(buttonsw_ok == 0 && count_coin_10 >= 2){

if (menu1_select == true){

lcd.clear();

lcd.setCursor(0,0);

lcd.print("Confirm pepsi");

myservo1.write(0);

delay(1000);

myservo1.write(90);

delay(1000);

count_coin_10 = 0;

menu1_select = false;

menu2_select = false;

delay(2000);

lcd.clear();

}

if (menu2_select == true){

lcd.clear();

lcd.setCursor(0,0);

lcd.print("Confirm coke");

count_coin_10 = 0;

menu1_select = false;

menu2_select = false;

delay(2000);

lcd.clear();

}
```

```
}

if(buttonsw_cancel == 0){

    count_coin_10 = 0;

    menu1_select = false;

    menu2_select = false;

    lcd.clear();

}

}
```