#include <Wire.h>

#include <Adafruit\_GFX.h>

#include <Adafruit\_SSD1306.h>

int IR\_SENSOR = 8;

int coinCount = 0;

#define SCREEN\_WIDTH 128 **// OLED display width, in pixels**

#define SCREEN\_HEIGHT 64 **// OLED display height, in pixels**

**// Declaration for an SSD1306 display connected to I2C (SDA, SCL pins)**

Adafruit\_SSD1306 display(SCREEN\_WIDTH, SCREEN\_HEIGHT, &Wire, -1);

void setup()

{

Serial.begin(9600);

pinMode(IR\_SENSOR, INPUT);

**// Initialize SSD1306 display**

if (!display.begin(SSD1306\_SWITCHCAPVCC, 0x3C)) **// Address 0x3C for 128x64**

{

Serial.println(F("SSD1306 allocation failed"));

for (;;);

}

display.setTextSize(2); **// Set text size to 1**

display.setTextColor(WHITE);

display.setCursor(0, 10);

**// Display static text**

display.println("COIN DETECTOR ");

display.display();

delay(1200);

display.clearDisplay();

display.setCursor(0, 10);

**// Display static text**

display.println("INSERT THE COIN");

display.display();

delay(1200);

display.clearDisplay();

}

void loop()

{

int irValue = digitalRead(IR\_SENSOR);

if (irValue == HIGH) **// Assuming LOW means coin detected, adjust if** necessary

{

coinCount += 2;

display.clearDisplay();

display.setTextSize(2);

display.setCursor(0, 10);

display.println("TOTAL COIN:");

display.println(coinCount); **// Print coin count on the display**

display.display();

delay(2000);

}

else

{

Serial.println("No coin detected");

}

}