// Pat McMahon 18/10/2018

//A026-RGB Infinity Mirror

//Note- This uses a RGB Strip with common anode(+5V) so a LOW (Negative) on the pin is needed to turn an LED on.

#include <IRremote.h>

int RECV\_PIN = A4;

IRrecv irrecv(RECV\_PIN);

int REDPin = 9; // RED pin of the LED to PWM pin 9

int GREENPin = 11; // GREEN pin of the LED to PWM pin 10

int BLUEPin = 10; // BLUE pin of the LED to PWM pin 11

int delayTime=1000;

void setup()

{

pinMode(REDPin, OUTPUT);

pinMode(GREENPin, OUTPUT);

pinMode(BLUEPin, OUTPUT);

Serial.begin(9600);

//Serial.println("Hello");

irrecv.enableIRIn(); // Start the receiver

}

void loop()

{

// turns on each of the Colours of the RGB in order

// R-Red

// G-Green

// B-Blue

// RG-Yellow

// RB-Magenta

// GB-Cyan

// RGB-White

decode\_results results;

if (irrecv.decode(&results)) {

Serial.println(results.value, HEX);

switch(results.value)

{

case 0x010:

// 1 key - OFF;

Serial.println("Key 1");

digitalWrite(REDPin,HIGH);

digitalWrite(GREENPin, HIGH);

digitalWrite(BLUEPin, HIGH);

break;

case 0x810:

// 2 key - red

digitalWrite(REDPin, LOW);

digitalWrite(GREENPin, HIGH);

digitalWrite(BLUEPin, HIGH);

break;

case 0x410:

//uView.print("3 key"-green

digitalWrite(REDPin, HIGH);

digitalWrite(GREENPin, LOW);

digitalWrite(BLUEPin, HIGH);

break;

case 0xC10:

//uView.print("4 key"-BLUE

digitalWrite(REDPin, HIGH);

digitalWrite(GREENPin, HIGH);

digitalWrite(BLUEPin, LOW);

break;

case 0x210:

//uView.print("5 key"- MAGENTA

digitalWrite(REDPin, LOW);

digitalWrite(GREENPin, HIGH);

digitalWrite(BLUEPin, LOW);

break;

case 0xA10:

//uView.print("6 key"-CYAN

digitalWrite(REDPin, HIGH);

digitalWrite(GREENPin, LOW);

digitalWrite(BLUEPin, LOW);

break;

case 0x610:

//uView.print("7 key-YELLOW

digitalWrite(REDPin, LOW);

digitalWrite(GREENPin, LOW);

digitalWrite(BLUEPin, HIGH);

break;

case 0xE10:

//uView.print("8 key"-all on- WHITE

digitalWrite(REDPin, LOW);

digitalWrite(GREENPin, LOW);

digitalWrite(BLUEPin, LOW);

break;

}

irrecv.resume(); // Receive the next value

}

delay(100);

}