// 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);

}