// Pat McMahon 7/5/2021

//A038-MFS6

int REDPin = 7; // RED pin of the LED to PWM pin 7

int GREENPin = 6; // GREEN pin of the LED to PWM pin 6

int BLUEPin = A4; // BLUE pin of the LED to PWM pin A4

int delayTime=1000;

void setup()

{

pinMode(REDPin, OUTPUT);

pinMode(GREENPin, OUTPUT);

pinMode(BLUEPin, OUTPUT);

}

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

digitalWrite(REDPin, HIGH); // R-Red on

delay(delayTime);

digitalWrite(REDPin, LOW); // R-Red off

delay(delayTime);

digitalWrite(GREENPin, HIGH); // G-Green on

delay(delayTime);

digitalWrite(GREENPin, LOW); // G-Green off

delay(delayTime);

digitalWrite(BLUEPin, HIGH); // B-Blue on

delay(delayTime);

digitalWrite(BLUEPin, LOW); // B-Blue off

delay(delayTime);

digitalWrite(REDPin, HIGH); // RG-Yellow on

digitalWrite(GREENPin, HIGH);

delay(delayTime);

digitalWrite(REDPin, LOW); // RG-Yellow off

digitalWrite(GREENPin, LOW);

delay(delayTime);

digitalWrite(REDPin, HIGH); // RB-Magenta on

digitalWrite(BLUEPin, HIGH);

delay(delayTime);

digitalWrite(REDPin, LOW); // RB-Magenta off

digitalWrite(BLUEPin, LOW);

delay(delayTime);

digitalWrite(GREENPin, HIGH); // GB-Cyan on

digitalWrite(BLUEPin, HIGH);

delay(delayTime);

digitalWrite(GREENPin, LOW); // GB-Cyan off

digitalWrite(BLUEPin, LOW);

delay(delayTime);

digitalWrite(REDPin, HIGH); // RGB-White on

digitalWrite(GREENPin, HIGH);

digitalWrite(BLUEPin, HIGH);

delay(delayTime);

digitalWrite(REDPin, LOW); // RGB-White offb

digitalWrite(GREENPin, LOW);

digitalWrite(BLUEPin, LOW);

delay(delayTime);

}