// Pat McMahon 11/8/2018

//A003

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

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

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

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);

 }