​// int ledcolor = 0; int a = 1000; //this sets how long the stays one color for int red = 11; //this sets the red led pin int green = 12; //this sets the green led pin int blue = 13; //this sets the blue led pin void setup() { //this sets the output pins pinMode(red, OUTPUT); pinMode(green, OUTPUT); pinMode(blue, OUTPUT);

}

void loop() { int ledcolor = random(7); //this randomly selects a number between 0 and 6 switch (ledcolor) case 0: //if ledcolor equals 0 then the led will turn red analogWrite(red,204); delay(a); analogWrite(red, 0); break; case 1: //if ledcolor equals 1 then the led will turn green digitalWrite(green, HIGH); delay(a); digitalWrite(green, LOW); break; case 2: //if ledcolor equals 2 then the led will turn blue digitalWrite(blue, HIGH); delay(a); digitalWrite(blue, LOW); break; case 3: //if ledcolor equals 3 then the led will turn yellow analogWrite(red, 160); digitalWrite(green, HIGH); delay(a); analogWrite(red, 0); digitalWrite(green, LOW); break; case 4: //if ledcolor equals 4 then the led will turn cyan analogWrite(red, 168); digitalWrite(blue, HIGH); delay(a); analogWrite(red, 0); digitalWrite(blue, LOW); break; case 5: //if ledcolor equals 5 then the led will turn magenta digitalWrite(green, HIGH); digitalWrite(blue, HIGH); delay(a); digitalWrite(green, LOW); digitalWrite(blue, LOW); break; case 6: //if ledcolor equals 6 then the led will turn white analogWrite(red, 100); digitalWrite(green, HIGH); digitalWrite(blue, HIGH); delay(a); analogWrite(red, 0); digitalWrite(green, LOW); digitalWrite(blue, LOW); break; }