**Code**

int red\_light\_pin=6 ;

int green\_light\_pin = 4;

int blue\_light\_pin = 2;

void setup() {

pinMode(red\_light\_pin, OUTPUT);

pinMode(green\_light\_pin, OUTPUT);

pinMode(blue\_light\_pin, OUTPUT);

}

void loop() {

RGB\_color(255, 0, 0); // Red

delay(2000);

RGB\_color(0, 255, 0); // Green

delay(1000);

RGB\_color(0, 0, 255); // Blue

delay(1000);

}

void RGB\_color(int red\_light\_value, int green\_light\_value, int blue\_light\_value)

{

analogWrite(red\_light\_pin, red\_light\_value);

analogWrite(green\_light\_pin, green\_light\_value);

analogWrite(blue\_light\_pin, blue\_light\_value);

}