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/*
Arduino Course, Main_Track, Lesson 5: Serial_Monitor
Shows Serial_Monitor data flow from IDE to Arduino: input to Arduino.
This adapted from the Adafruit Arduino Lesson 5.
$Id: Arduino_lesson_05_serial_monitor_APL_VERSION.ino,v 1.17 2014/04/05
15:09:11 gralimj1 Exp gralimj1 $
 * /
int redPin = 11;
int greenPin = 10;
int bluePin = 9;
void setup()
 pinMode(redPin, OUTPUT);
 pinMode(greenPin, OUTPUT);
 pinMode(bluePin, OUTPUT);
  setColor(0, 0, 0); // Set initial condition
  Serial.begin(9600);
  if (Serial.available()) { // Wait until serial line available.
    delay (200);
  Serial.println ("Enter LED color: r, g, b");
  Serial.println (" 'd' to make all dark; 'w' to make white; no
quote.");
  Serial.println ("Remember to 'Enter' or click 'Send'.");
  Serial.println ("All other characters ignored.");
}
void loop()
  char ch = Serial.read();
  if (ch == 'r' | ch == 'R')
    setColor(16, 0, 0); // red
    Serial.print("Turned on LED ");
    Serial.println("red");
  if (ch == 'g' || ch == 'G')
    setColor(0, 16, 0); // green?
    Serial.print("Turned on LED ");
    Serial.println("green");
    if (ch == 'b' | ch == 'B')
      setColor(0, 0, 16); // blue?
      Serial.print("Turned on LED ");
      Serial.println("blue");
    if (ch == 'w' | ch == 'W')
```

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setColor(16, 16, 16);
    Serial.println("Turned all LED's ON" );
}
if (ch == 'd' || ch == 'D')
{
    setColor(0, 0, 0);
    Serial.println("Turned all LED's OFF");
}

void setColor(int red, int green, int blue)
{
    analogWrite(redPin, red);
    analogWrite(greenPin, green);
    analogWrite(bluePin, blue);
}
```