```
// Print to serial
 LDRRatio = (float)255/(LDRMax-LDRMin);

 // Calculate the ratio (note the use of float - since the
calculation is being done on integers you have to
   Serial.print("LDRRatio: ");  // Print to serial
   Serial.println(LDRRatio);
 }
 void loop() {
   //Read the LDR

 LDRValue = analogRead(LDRPin) - LDRMin;
  // Print the value to the monitor so I can see it
 Serial.println(LDRValue);
 // Modify reading to match analogWrite range using Ration
calculation

 LDRValue = (LDRValue
  ) * LDRRatio;
  // Sometimes the number is over 255 or under 0 - rounding errors
!!!!!
     if (LDRValue < 0){
     LDRValue = 0;
     }
     if (LDRValue > 255)
     {
          LDRValue = 255;
     }
  // Print to Monitor
     Serial.print("LDRValue after calculation: ");
     Serial.println(LDRValue);
     // Set the value for the LED
     analogWrite(ledPin, LDRValue);
     delay(100);
}
```