**Level 2: Adding Colored LEDs**

1. **Extend your proto-board to add two colored LEDs.**

Complete

1. **Modify your procedure definition on line #23 to look like the following:  
   “int blink(int value, int led) {“**

Complete

1. **Modify the code in your procedure to light up the LED indicated in the procedure parameter.**

Complete

1. **Modify your main loop to correctly use your new procedure definition.**

The modified code is on the last page of this document

**int YellowLED =12;**

**int RedLED =11;**

**void setup() {**

**pinMode(YellowLED, OUTPUT);**

**pinMode(RedLED, OUTPUT);**

**Serial.begin(9600);**

**}**

**void loop() {**

**int timesBlinked = blink(4,YellowLED);**

**timesBlinked = blink(5,RedLED);**

**Serial.print("The LED was SUPPOSED to blink ");**

**Serial.print(timesBlinked);**

**Serial.print(" times BUT only blinked ");**

**Serial.println(timesBlinked);**

**delay(1000);**

**}**

**int blink(int value,int led) {**

**for (int i = 0; i < value; i++) {**

**digitalWrite(led, HIGH); // turn the LED on (HIGH is the voltage level)**

**delay(500); // wait for a second**

**digitalWrite(led, LOW); // turn the LED off by making the voltage LOW**

**delay(500); // wait for a second**

**}**

**Serial.print("The LED blinked ");**

**Serial.print(value);**

**Serial.println(" times.");**

**return value;**

**}**