**Level 2: Adding Colored LEDs**

1. Extend your proto-board to add two colored LEDs.
2. Modify your procedure definition on line #23 to look like the following:  
   “int blink(int value, int led) {“  
   Done
3. Modify the code in your procedure to light up the LED indicated in the procedure parameter.
4. Modify your main loop to correctly use your new procedure definition.

// global variable for a number of times to blink the LED

int times = 5;

int YellowLED = 12;

int RedLed = 11;

// the setup function runs once when you press reset or power the board

void setup() {

// initialize digital pin LED\_BUILTIN as an output.

pinMode(LED\_BUILTIN, OUTPUT);

Serial.begin(9600);

}

// the loop function runs over and over again forever

void loop() {

int timesBlinked = blink(4,LED\_BUILTIN);

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

Serial.print(times);

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

Serial.println(timesBlinked);

delay(1000);

}

// a new procedure defined by you to blink the LED

“int blink(int value, int led) {“

for (int i = 0; i < times; i++) {

digitalWrite(LED\_BUILTIN, HIGH); // turn the LED on (HIGH is the voltage level)

delay(500); // wait for a second

digitalWrite(LED\_BUILTIN, LOW); // turn the LED off by making the voltage LOW

delay(500); // wait for a second

}

Serial.print("The LED blinked ");

Serial.print(times);

Serial.println(" times.");

return times;

}