

Mission 4 Assignment Log	Name:	
Pre-Mission Preparation		
What do you already know about RGB colors?		
Many devices use RGB colors for their displays. List some devices:		
Mission 4 Checks		
Objective #1 What is the code to set the first NeoPixel in the ring to red?		
What is the code to set the last NeoPixel in the ring to blue?		
Objective #2 How is a tuple like a list? How are they different?		
Objective #3 Write two lines of code that: <ul style="list-style-type: none"> Define a constant for a color Assign the color to the fifth pixel 		
Objective #4 Given this code, identify the parts: <pre>def set_all_pixels(rgb_color): for pixel in range(4): np[pixel] = rgb_color</pre>	parameter	
	# of loops	
	Loop variable	
	Index variable	
Objective #5 Write a line of code that generates a random number between 1 and 15:		

<p>Objective #6 What is the value of a microswitch when it is not pressed?</p> <p>Explain what this code does:</p> <pre>if microswitch.value == HATCH_CLOSED: set_all_pixels(RGB_GREEN) else: set_all_pixels(RGB_RED)</pre>	
<p>Objective #7 Explain what this code does:</p> <pre>def is_lock_failed(): return randint(0, 99) < 40</pre>	
<p>Objective #8 What is the variable “was_pressed” used for?</p>	
<p>Post-Mission Reflection</p>	
<p>What is a challenge you had with this mission? How did you overcome the challenge?</p>	
<p>What is something you learned about yourself during this mission?</p>	