

ECE-395: Lab 2 – Worksheet**Group:** _____**Date:** _____**Names:** _____**Part1: *GPIO's as Outputs*****1. Basic operation****What happens when the second 'BL delay' call is removed and why?****What happens when the 'BL redoff' call is removed and why?****What happens when the 'BL redon' call is replaced with 'BL redtoggle' and why?****2. Colors**

Led Color	GPIO_D_PDOR	GPIOB_PDOR
Red		
Green		
Blue		
Yellow (Red and Green)		
Cyan (Green and Blue)		
Magenta (Red and Blue)		
White (Red, Green and Blue)		

3. Blink rate

DELAY_CNT	Blink rate

3. Brightness

Describe the brightness for 50 off /50 on _____

Describe the brightness for 25 off /75 on _____

Describe the brightness for 75 off /25 on _____

Part 2: GPIO's as Inputs

1. Basic operation

Button not pressed.

GPIO_D_PDIR read into R1 _____

Flags after the TSTS command is executed: N = ____ Z = ____ C = ____ V = ____

Button pressed.

GPIO_D_PDIR read into R1 _____

Flags after the TSTS command is executed: N = ____ Z = ____ C = ____ V = ____