CS-350-T3346 Emerging Systems Architectures & Technologies

2-1 Milestone One

Eric Wallace

Jan. 5, 2023

* **What does pwmled2 set the PWM period to?**   
  The PWN period is set to 3000 microseconds
* **Which PWM\_xxx() function sets the PWM period?**  
  PWM\_setPeriod(PWM\_Handle handle, uint32\_t period)
* **Which PWM\_xxx() function sets the PWM duty cycle?**   
  PWM\_setDuty(PWM\_Handle handle, uint32\_t duty)
* **What is the purpose of the while(1) loop in pwmled2?**   
  The purpose of the while(1) loop is to cycle the green and yellow lights off and on based on the criteria set for the duty cycle and pwnPeriod. The loop is an infinite loop that loops while incrementing the duty variable.
* **What is the purpose of usleep() in the while(1) loop?**   
  The purpose of the usleep() function in the loop is to cause a delay in the blinking of lights or execution of the code. The way the code is written there will be a slight delay where the yellow light will be at 10% and the green light at 90% for 1 second and then it will start the execution over.