Sean Toon

CS-350-13382-M01 Emerging Sys Arch & Tech 2024 C-5 (Sep - Oct)

10/10/2024

**5-1 Milestone Three**

• What is the purpose of the timerCallback() function?

The timerCallback() function is called everytime that a timer expires, which is set to occur at different times. In the code that I created, it handles the processMorseCode() function that handles the logic for the blinking LEDs according to the morse code messages.

• What does period mean in this context?

In the context provided in the code, period refers to the duration of the time the timer will trigger the callback function again.

• How does the Timer\_CONTINUOUS\_CALLBACK parameter impact the driver?

The Timer\_CONTINUOUS\_CALLBACK parameter impacts the driver just in the way that the name suggests. It configures the timer to operate in continuous mode, meaning that it automatically resets a countdown each time the callback is triggered.

• What is gpioButtonFxn0() used for?

The gpioButtonFxn0() handles button presses. In the code that I completed it is used to change the morse code message.

• What is the purpose of GPIO\_CFG\_IN\_INT\_FALLING?

GPIO\_CFG\_IN\_INT\_FALLING is basically what makes up the interrupt that is triggered on the falling edge of the signal of a pin. It also works to handle button presses.