**5-1 Milestone Three**

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

The timerCallback() function is the callback function that is called when the initTimer() function reaches a specified time.

**• What does period mean in this context?**

Period in this context refers to the time interval the time is configured to trigger the timerCallback() function. For this program, the time interval is 500,000 microseconds or 500 milliseconds. This means that the timerCallback() is called every 500,000 microseconds or 500 milliseconds.

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

The Timer\_CONTINUOUS\_CALLBACK parameter indicated that the timer will work in continuous mode, meaning that after the specified amount of time the timerCallback() function is executed and timer automatically restarts for the next period.

**• What is gpioButtonFxn0() used for?**

The gpioButtonFxn0() is used to toggle the ButtonClick variable which is used as the trigger to switch between SOS and OK.

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

The GPIO\_CFG\_IN\_INT\_FALLING is a configuration option used for a GPIO pin used as an input, in this case it would be both CONFIG\_GPIO\_BUTTON\_0 and CONFIG\_GPIO\_BUTTON\_1 to trigger gpioButtonFxn0() and gpioButtonFxn1() respectively. This is used to trigger an interrupt when one of the buttons is pressed.