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**Milestone Three Lab**

1. What is the purpose of the timerCallback() function?

The timerCallback() function gets called at a specified interval. The code inside this function is called into action every time the timer period expires.

1. What does period mean in this context?

The ‘period’ is the time interval between timer events. The code initially sets the period to 1,000,000 microseconds with ‘params.period = 1000000’.

1. How does the Timer\_CONTINUOUS\_CALLBACK parameter impact the driver?

The Timer\_CONTINUOUS\_CALLBACK parameter indicates that the timer should run continuously and call the ‘timerCallback()’ function every time the specified period elapses. This allows the ‘timerCallback()’ to be repeatedly called at each interval.

1. What is gpioButtonFxn0() used for?

When the button connected to ‘CONFIG\_GPIO\_BUTTON0’ is pressed, the ‘gpioButtonFxn0()’ function is called and toggles the state of the LED that is configured to ‘CONFIG\_GPIO\_BUTTON0’. This function is executed as part of the GPIO interrupt service routine for ‘CONFIG\_GPIO\_BUTTON0’.

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

The ‘GPIO\_CFG\_IN\_INT\_FALLING’ detects when a button is pressed. It configures a GPIO pin to generate an interrupt on a falling edge, which occurs when the signal transitions from high to low.