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

The timerCallback() function is to serve as a callback function that is executed when the timer expires. Here, the function is empty, so when the timer expires no specific action is taken, allowing it to be overridden or extended by the user in order to execute custom behavior when the timer expires.

• What does period mean in this context?

The period refers to the duration of time after which the timer will expire and trigger the callback function. It’s specified in microseconds, and equates to 1 second, meaning that the callback function will be called every second.

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

This parameter configures the timer to repeatedly call the callback function everytime that the timer expires. Meaning that once the timer is initialized, it will continue to run indefinitely and trigger the callback function at the interval specified by the period.

• What is gpioButtonFxn0() used for?

This is a callback function for the interrupt on button 0. It is called whenever a falling edge is detected on button 0. This callback function toggles LED 0 on and off.

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

This is a flag used to configures the GPIO pin as an input and give it interrupt detection. Here, it configures the ping to create an interrupt when a falling edge is detected on the pin. Basically, this flag is used to detect when the button is pressed, and initiate a callback.