```
void user delay ms (uint32 t period) {
   for (int i = 0; i < 170*period; i++) {</pre>
                                          //based off of 30us delay in DOGM163W A SERCOM1.c
       __asm("nop");
                                          //delay by period ms
   }
}
// Function Name
                     : "spi transfer"
// Date
                     : 5/9/20
// Version
                     : 1.0
// Target MCU
                     : SAML21J18B
// Target Hardware
                     ; BME680
// Author
                     : Brandon Cheung, Ishabul Haque
// DESCRIPTION
// Transmits an unsigned integer byte 'data' through SERCOM1's SPI data
// register, then receives a transmission through SERCOM1's SPI data register
// and returns the received unsigned integer byte.
//
// Warnings
                     : none
// Restrictions
                     : none
// Algorithms
                     : none
// References
                     : none
//
// Revision History
                    : Initial version
//
static uint8_t spi_transfer (uint8_t data) {
   uint8_t Rx_data;
   while(!(REG SERCOM1 SPI INTFLAG & 1)) {}
                                              //wait until Tx ready
   REG_SERCOM1_SPI_DATA = data;
                                              //send data byte
   while(!(REG SERCOM1 SPI INTFLAG & 2)) {}
                                              //wait until transmit is complete
   while(!(REG_SERCOM1_SPI_INTFLAG & 4)) {}
                                             //wait until receive is complete
   Rx_data = REG_SERCOM1_SPI_DATA;
                                              //read data register
   return Rx data;
}
```