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// File Name
                     : "BME680 Sensor API"
// Title
                     : BME680 Sensor API
// Date
                     : 5/8/20
// Version
                     : 1.0
// Target MCU
                     : SAML21J18B
// Target Hardware
                  ; DOG LCD, BME680
// Author
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// DESCRIPTION
// Uses the user spi write, user spi read and spi transfer functions with
// the parameters defined in the BME680 Sensor API to configure the BME680
// and read the raw temperature measurement from the sensor's ADC.
//
// Warnings
// Restrictions
                     : none
// Algorithms
                     : none
// References
// Revision History : Initial version
//
//
#include "saml21j18b.h"
uint8 t status, id;
uint32_t raw_temperature;
unsigned char* ARRAY PORT PINCFG0 = (unsigned char*)&REG PORT PINCFG0;
unsigned char* ARRAY_PORT_PMUX0 = (unsigned char*)&REG_PORT_PMUX0;
void init spi MCU (void);
static void init spi BME680 (void);
void user delay ms (uint32 t period);
static uint8 t spi transfer (uint8 t data);
int8 t user spi read (uint8 t dev id, uint8 t reg addr, uint8 t *reg data, uint16 t len);
```