Task 00: Execute provided code

Youtube Link:

Task 01:

Youtube Link: https://www.youtube.com/watch?v=aS-ew-Q-gKg

Modified Schematic (if applicable):

Modified Code:

// Insert code here
In collector project:
 Csf.c:

```
void Csf_deviceSensorDataUpdate(ApiMac_sAddr_t *pSrcAddr, int8_t rssi,

                 Smsgs_sensorMsg_t *pMsg)

{

    Board_Led_toggle(board_led_type_LED2);


    LCD_WRITE_STRING_VALUE("Temperature=", pMsg->tempSensor.objectTemp, 10,

6);


#if defined(MT_CSF)

    MTCSF_sensorUpdateIndCB(pSrcAddr, rssi, pMsg);

#endif

}
```
Config.h:
```
#define CONFIG_CHANNEL_MASK{0x00, 0x04, 0x00, 0x00, 0x00, 0x00, \

                 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, \

                 0x00, 0x00, 0x00, 0x00, 0x00 }
```

In sensor project:

Grading scheme: 30% Coding, 30% Documentation, 40% Execution/Video.

In portable folder console.c:

```
switch (cmd) {
        case 't':
            tempSensor.objectTemp = localTemperatureF;
            tempSensor.ambienceTemp = localTemperatureF;
            Util_setEvent(&Sensor_events, EXT_SENSOR_READING_TIMEOUT_EVT);
            UART_write(uart, tempStartDisplay, sizeof(tempStartDisplay));
```

In temperature.c

```
    retc = setupTimer(&semTimer, &timerid, 1, 0);

    if (retc != 0) {
        while (1);
    }


    for (sample = 0; sample < 20; sample++){
        if(I2C_transfer(i2c, &i2cTransaction)){


            temperatureC = (rxBuffer[0] << 8) | (rxBuffer[1]);
            temperatureC = (((175.72* temperatureC)/ 65536) - 46.85);
            temperatureF = temperatureC * 1.8 + 32;


            Display_printf(display, 0, 0, "Sample %u: %d (C)", sample, temperatureF);
        }
        else{
            Display_printf(display, 0, 0, "I2C Bus fault.");
        }
    retc = sem_wait(&semTimer);
    if (retc == -1) {
        while (1);
```

Grading scheme: 30% Coding, 30% Documentation, 40% Execution/Video.

}

}