**PIC micro controller**: PIC18F46J53

**Compiler**: XC8 2.10

**Useful info:**

The CCP modules are used to capture the SENT data. In PIC18F, few of the GPIO pins have CCP capability.

Create a MPLAB project with PIC18F46J53 and add the below files into the created project.

Comment out the main() and USB related function and interrupts.

**Files:**

*LX3302\_capture\_IC\_Output.c*

This file contains the interrupt handler for CCP module is used to capture the data from IO pins for SENT data and other utility functions.

The main function should call function: int SENT\_multiFrames(uint8\_t IO\_Selected, uint8\_t numFrame).

It is entry function to receive the SENT data.

The collected data is sent to GUI tool to parse and display.

There is structure called SENT\_Frame, which collects the SENT frame data.

*LX3302\_capture\_IC\_Output.h*

This file contains the function declarations only.

LX3302\_CCPModule.h

This file contains the function declarations only.

LX3302\_CCPModule.c

This file initializes the CCP modules for all the IO’s