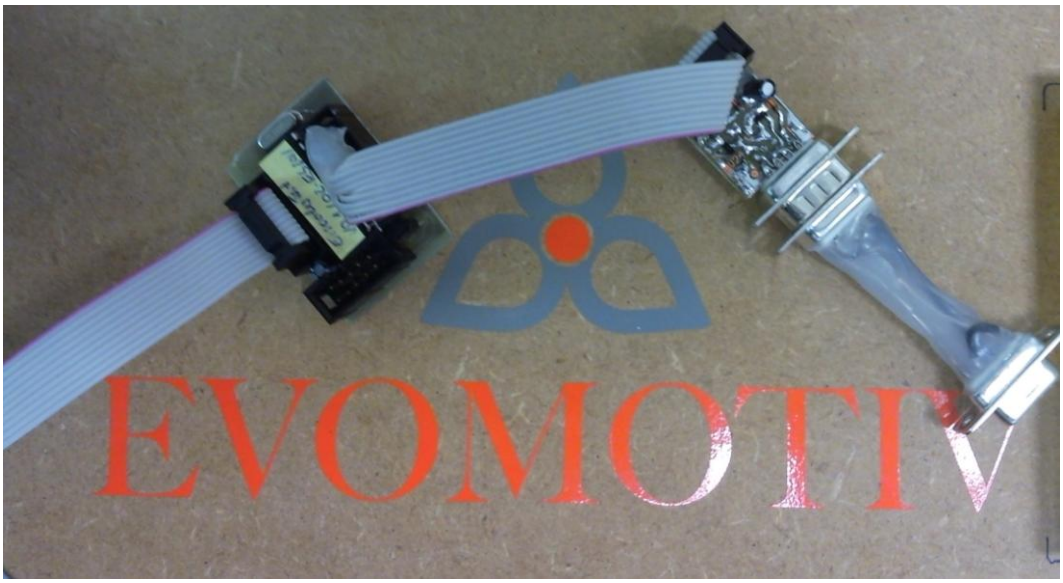
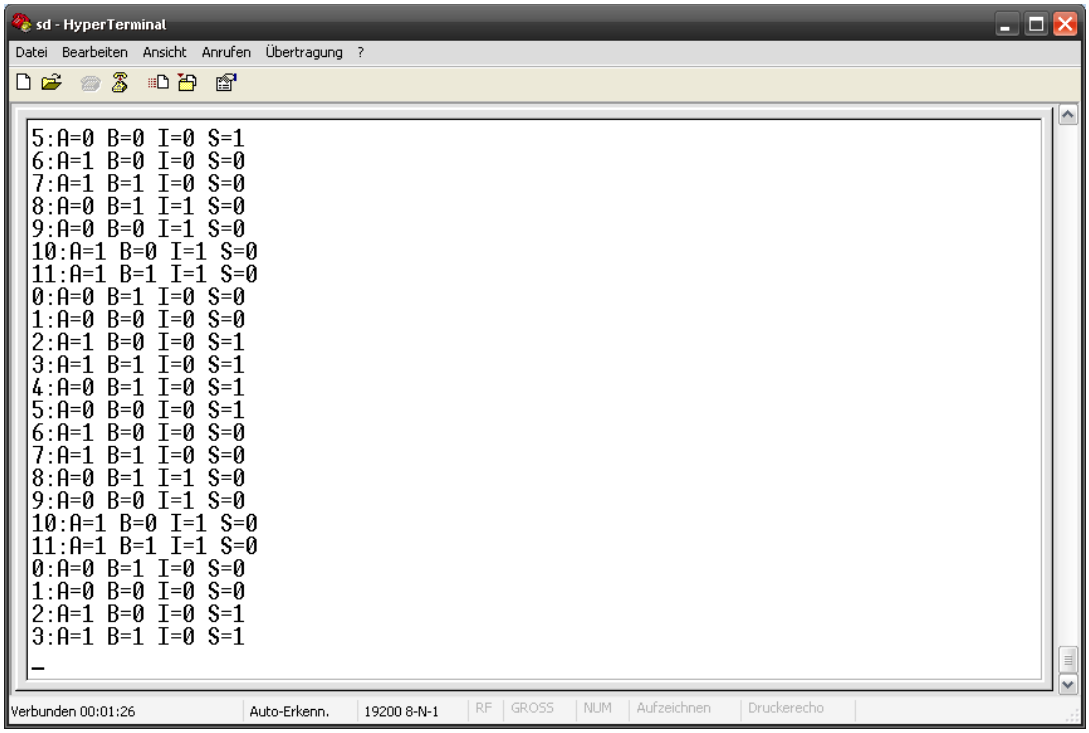
1)Import the TestQEP Project into Code Composer Studio

2)you can edit the QEP_ERROR_ON define in globals.h

3)connect the QEP Hardware Simulator to the QEP Pins (A,B,Strobe,Index,Vcc and GND --> you can use the Board 5V supply) and the RS232 Port of your Computer (baudrate is 19200)



4)set first QEP state to state 3 A=1,B=1,I=0,S=1

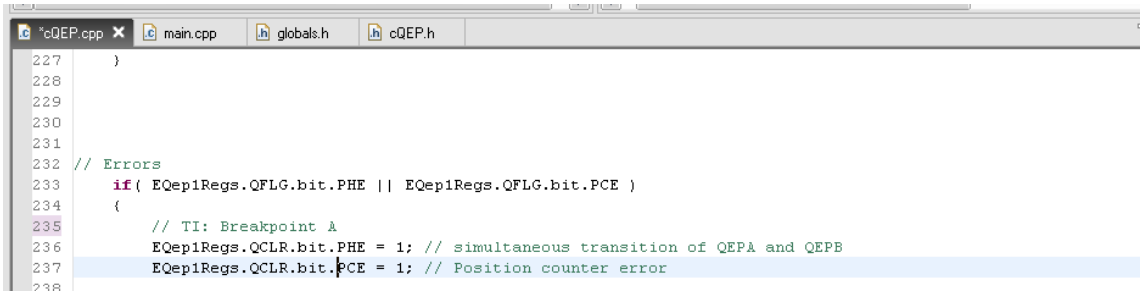


5)Start and debug the Project

6)the QEP Class get the Intestate with the instruction InitalState = (GpioDataRegs.GPADAT.all & 0x00f00000)>> 20; - with the QEP_ERROR_ON define the Mux is set to read from GPIO and without the define the port is read with default Mux settings

7)uncomment / comment the QEP_ERROR_ON define to provoke the Error - you will get a PHE/PCE Error and a wrong counting position after that

--> Set a Breakpoint to line 236 on the // TI: Breakpoint A comment



8) alternatively you can debug via can - you can sent me a email at heiko.ruth@evomotiv.de and will get a complete CANoe Configuration for easy debugging