ECE 153B Lab 4

Question 2A)

USART DIV = $8333.333 \sim 8333 = 0x208D$ TX/RX Baud Rate = $9600 = \sim f$ CLK /(USART DIV) = 80MHz /(0x208D)

Question 3B)

PRESC = 7

Min Low clk per. = 4.7us

Min Hi clk per. = 4.0us

Min data setup time = $\underline{1000\text{ns}} = \underline{1\text{us}}$

Min data hold time = $\underline{1250}$ ns = $\underline{1.25}$ us

Used in the following Calculations:

Reading and Writing from the Temperature Sensor:

TABLE 4-1: COMMAND BYTE
DESCRIPTION
(SMBUS/I²C READ_BYTE AND
WRITE_BYTE)

Command	Code	Function
RTR	00h	Read Temperature (TEMP)
RWCR	01h	Read/Write Configuration (CONFIG)

Read Temperature Command Byte = 0x00