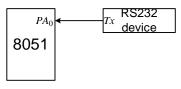
CS120B – Homework #3

Given August 23, 2002. Due August 28, 2002 at the beginning of class.

- 1. Write about the I2C protocol in your own words. It must be typed written and about 500 words in length. Remember to include all your references. (5)
- 2. A RS232 device is sending a signal to the 8051 as shown in the figure. Assume that a **for** loop that counts to 100 is equivalent to one bit time. Also assume that the timing for one pseudo code statement is equivalent to one count of the **for** loop. Write a segment of code that waits for the start bit and then reads in the next 8 data bits, MSB first. Reading of the data bits must



occur at the middle of each bit time. Finally the 8 data bits are stored in the variable "data."

(5)