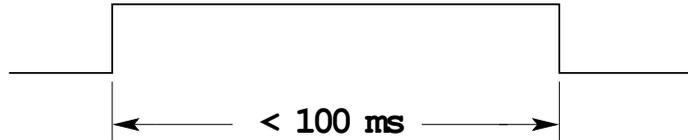


EE 308 – Quiz 6
March 4, 2005

Name: _____
Name: _____
Name: _____
Name: _____

You want to use an HC12 to time the length of this pulse:



You will use bit 4 of Port T to measure the time of the rising edge of the pulse, and bit 5 of Port T to measure the time of the falling edge of the pulse.

1. What setup do you need to do to be able to measure a pulse length of up to 100 ms? Write some C code to do this.
2. Write some C code to set up Port T bit 4:
 - (a) Capture the rising edge.
 - (b) Clear the CF4 flag
 - (c) Enable the C4I interrupt.