

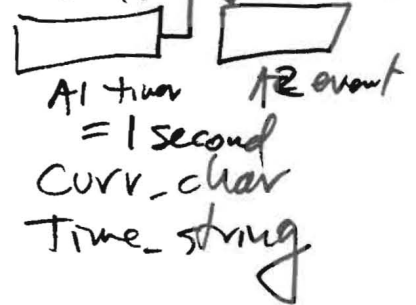
ECGR 6185 - Extra Notes - 4/7/10

1

SW1 ISR

Toggle "paused" variable
if (paused) then stop timer
else start timer

Var: Paused (=1, stop timer)
Seconds
minutes



SW2 ISR

set stop variable
timer A1 = 0
timer A2 = 0
stop timer

~~Seconds = 0~~
Seconds = 0
minutes = 0
paused = 1

Timer (event) ISR

Seconds = Seconds + 1
send time = 1

UART 0 Transmit ISR

check transmit flag
if clear

if ~~clear~~ time string [curr-char] not null
write time string [curr-char] to transmit buffer
curr char = chr char + 1

Initialize

init timer
init switches
set all var to 0
init UART
~~init~~

Main

initialize

Binary to ASCII

Convert binary to
tens, ones for MM
Convert binary to
tens, ones for SS

"LCD Print"

SW1 ISR

if CS = running, NS = paused
 if CS = paused, NS = running
 state change = 1

SW2 ISR

NS = reset
 state change = 1

Timer ISR

NS = prepare string
 state change = 1

UART0 transmit
 same as before

Main program

initializes
 state change = 1
 NS = reset
 while(1)
 if (state change) NS,
 switch (state)

reset: _____
 paused: _____
 running: _____
 prepare string: _____

