A time of day clock.

The EasyWeb2 board includes an LCD display that can be used to display the time of day.

The code below partially implements a simple time of day clock.

```
#include <msp430x14x.h>
#include "display.h"
void delay() {
      int dly;
      for (dly=0;dly<100;dly++);
}
void main( void )
{
// Stop watchdog timer to prevent time out reset
      WDTCTL = WDTPW + WDTHOLD;
      initDisplay();
      clearDisplay();
      printString("Hello World");
      while(1) {
// insert code here to periodically update the display and update global
// variables that count seconds, minutes and hours.
// Suggestion: update the display each time the number of seconds changes.
// You will need to 'calibrate' the delay loop.
      }
}
```

Questions:

1) What code is needed to get an increasing count on the display?
2) How is the rate controlled?
3) Is there a limit to how slow it can go? Why is this and how can it be fixed?
4) Expand code so that it implements a time of day clock with seconds, minutes and hours