```
//definitions
#define F_CPU 20000000UL

//include files
#include <util/delay.h>
#include <avr/io.h>
#include "functions.h"


int main (void)
{
    //declare variables
    int hundredths = 0;
    int disp_int;       //scratch variable
    char run = 0;

    //setup microcontroller
    setup();

    while (1) //repeat forever
    {
        //loading variables and displaying numbers
        disp_int = hundredths;
        display_digit (disp_int/1000,1);
        disp_int = disp_int % 1000;
        display_digit (disp_int/100,2);
        disp_int = disp_int % 100;
        display_digit (disp_int/10,3);
        display_digit (disp_int%10,4);
        display_digit('.',2);
        //increasing the number & running statements to test for buttons & lim
        if (run == 1)
        {
            hundredths++;
        }
        if ((PORTE_IN & 0b00000001) == 0)
        {
            run = 1;
        }
        if (hundredths == 9999)
        {
```

```
            run = 0;
        }
        if ((PORTE_IN & 0b00000010) == 0)
        {
            run = 0;
        }
        if ((PORTE_IN & 0b00000100) == 0)
        {
            hundredths = 0;
        }

    }
}
```