Multitasking

```
#include "includes.h"
//#include "edutech.h"
#include "uart.h"
#include "lcd.h"

OS_STK Task1Stack[100];
void Task1(void *pdata);

OS_STK Task2Stack[100];
void Task2(void *pdata);

OS_STK Task3Stack[100];
void Task3(void *pdata);

/* Main Program */
int  main (void)
{
timer_init();
OSInit();
OSTaskCreate(Task1, (void *)0, &Task1Stack[99], 1);
OSTaskCreate(Task2, (void *)0, &Task2Stack[99], 2);
OSTaskCreate(Task3, (void *)0, &Task3Stack[99], 3);
OSStart();
//return 0;
}
/* Task Definition */
```

```
/**
* Task1 to Print 0 to 9 on LCD line1
*/
void Task1(void *pdata)
{
int i=0;
Lcd_Init(); // Initialize LCD in 8bit mode
Lcd_Cmd(0x80); // LCD Line1 cmd
Lcd_String("numbers");
while(1)
{

Lcd_Cmd(0x88);
Lcd_Data(0x30 + i++);
if(i==10) i=0;


// LCD Line1 cmd

OSTimeDlyHMSM(0, 0, 1, 0);
}
}
/**
* Task2 to Print A to Z on LCD line2 */
void Task2(void *pdata)
{
int i=0;
```

```
Lcd_Cmd(0xC0); // LCD Line2 cmd
Lcd_String("alphabets");
while(1)
{

Lcd_Cmd(0xCB);
Lcd_Data(0x41 + i++);


// LCD Line2 cmd

if(i==26) i=0;
OSTimeDlyHMSM(0, 0, 0, 500);
}
}

/**
* Task3 to Print 0 to 9 on UART0 */
void Task3(void *pdata)
{
int i=0;
Uart0_Init(4800);
while(1)
{
uprintf("\x1b[1;1HTask3 %d04",i++);
if(i==9999) i=0;
OSTimeDlyHMSM(0, 0, 1, 0);
}
```

```
}
```