

```

#include <lpc214x.h>

void uart_init(void);
unsigned int delay;
unsigned char *ptr;
unsigned char arr[] = "HELLO WORLD\r";

int main()
{
    while (1)
    {
        uart_init();
        ptr = arr;
        while (*ptr != '\0')
        {
            U0THR = *ptr++;
            while (!(U0LSR & 0x20) == 0x20)
                ;
            for (delay = 0; delay <= 600; delay++)
                ;
        }
        for (delay = 0; delay <= 60000; delay++)
            ;
    }
}

void uart_init(void)
{
    PINSEL0 = 0x00000005; // select TXD0 and RXD0 lines
    U0LCR = 0x00000083; // enable baud rate divisor loading and
    U0DLM = 0x00; // select the data format
    U0DLL = 0x13; // select baud rate 9600 bps
    U0LCR = 0x00000003;
}

```