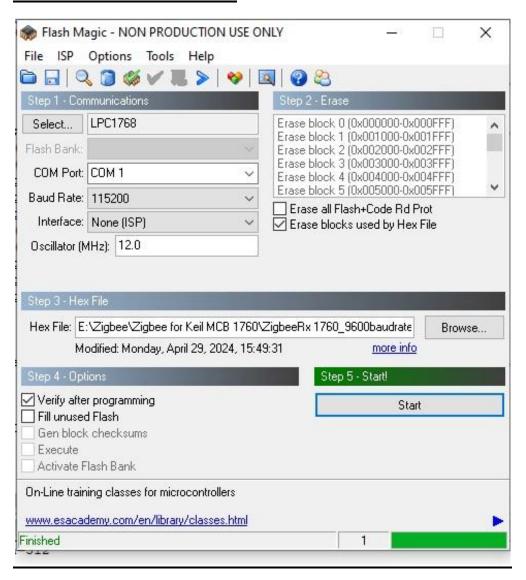
### **ZIGBEE PROGRAM:**

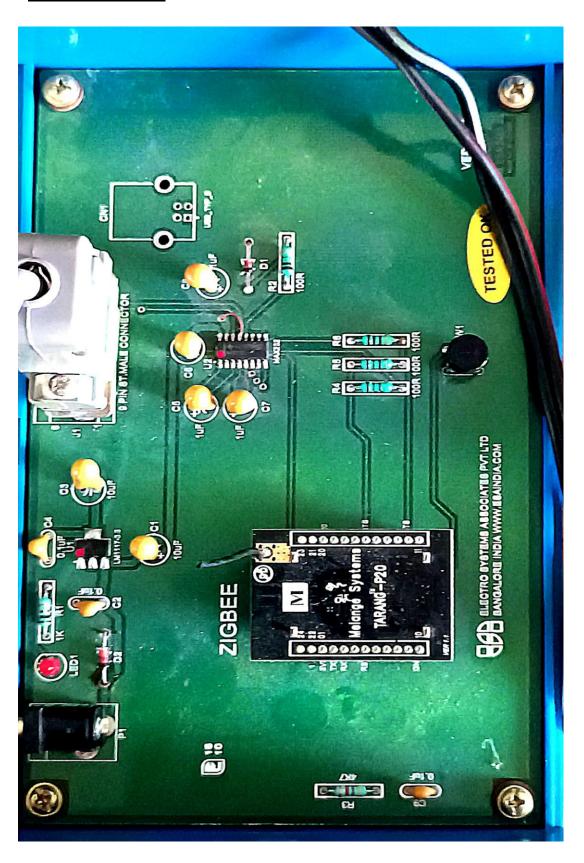
```
#include <stdio.h>
#include "LPC17xx.H"
                                /* LPC17xx definitions
                                                          */
#include "GLCD.h"
#include "Serial.h"
#define FI
               1
                           /* Font index 16x24
                                                     */
void ZigbeeMeshTX_Init(void)
      /*user may configure zigbee by entering below AT commands in any serial terminal
using RS232 cable*/
      /*To check whether Zigbee is configured or not you can use hyperterminal or any serial
port/terminals by entering the commands in tx in serial window of PC to zigbee using RS232
cable*/
                                         /* To enter AT command mode */
      SER SendString("+++");
      SER_SendString("ATNDA00003000\r");
                                                                           /* This
command sets the Destination address as 00003000 */
      SER_SendString("ATGWR\r");
                                             /* Write to flash */
      SER_SendString("ATNUD00002000\r");
                                                                            /* This
command sets the Source address as 00002000 */
      SER_SendString("ATGWR\r");
                                             /* Write to flash */
      SER SendString("ATNCHF\r");
      /* This command sets the CHANNEL as 0F */
      SER_SendString("ATSBD3\r");
      /* This command sets the baud as 9600 */
      SER_SendString("ATGWR\r");
                                             /* Write to flash */
      SER_SendString("ATNPI00001111\r");
                                                                            /* This
command sets the Personal Area Network ID/address as 00001111 */
      SER_SendString("ATGWR\r");
      /* Write to flash */
      SER_SendString("ATGEX\r");
                                           /* To Exit AT command mode*/
}
/*_____
 Main Program
*____*/
int main (void) {
      LPC_SC->PCONP|=(1<<15);
```

```
SER_Init();
                                    /* UART Initialization
                                                               */
      LPC GPIO0->FIODIR = 0x007f8000;
      ZigbeeMeshTX Init();
#ifdef __USE_LCD
                               /* Initialize graphical LCD
 GLCD_Init();
 GLCD_Clear(White);
                                  /* Clear graphical LCD display */
 GLCD_SetBackColor(Blue);
 GLCD_SetTextColor(White);
 GLCD_DisplayString(0, 0, __FI, "
                                  MCB1700 Demo ");
 GLCD_DisplayString(1, 0, __FI, "
                                  Zigbee Mesh TX ");
 GLCD_DisplayString(2, 0, __FI, "
                                  www.keil.com ");
 GLCD_SetBackColor(White);
 GLCD_SetTextColor(Blue);
 GLCD_DisplayString(5, 0, __FI, "Tx character:");
      GLCD_DisplayString(3, 0, __FI, "Press RESET to ");
      GLCD_DisplayString(4, 0, __FI, "TRANSMIT");
#endif
                                          /* Generate interrupt each 10 ms */
 SysTick_Config(SystemCoreClock/100);
 while (1)
                                /* Loop forever
                                                         */
      GLCD_DisplayChar(7, 4, __FI,SER_PutChar('G'));
}
```

#### **ZIGBEE IMPLEMENTATION:**



# **ZIGBEE MODULE**



## **ZIGBEE TRANSMITTER:**



## **ZIGBEE RECEIVER:**

