C:\Users\Mridul\Downloads\lab9a\lab9a.uvproj - µVision [Non-Commercial Use License]

File Edit View Project Flash Debug Peripherals Tools SVCS Window Help

Target 1

Project

Project: lab9a
Target 1
Source Group 1
STARTUP.A5
main.c
at89c513
lcd.h
mcp3008
spi.h
lcd.h
mcp3008.h
spi.h

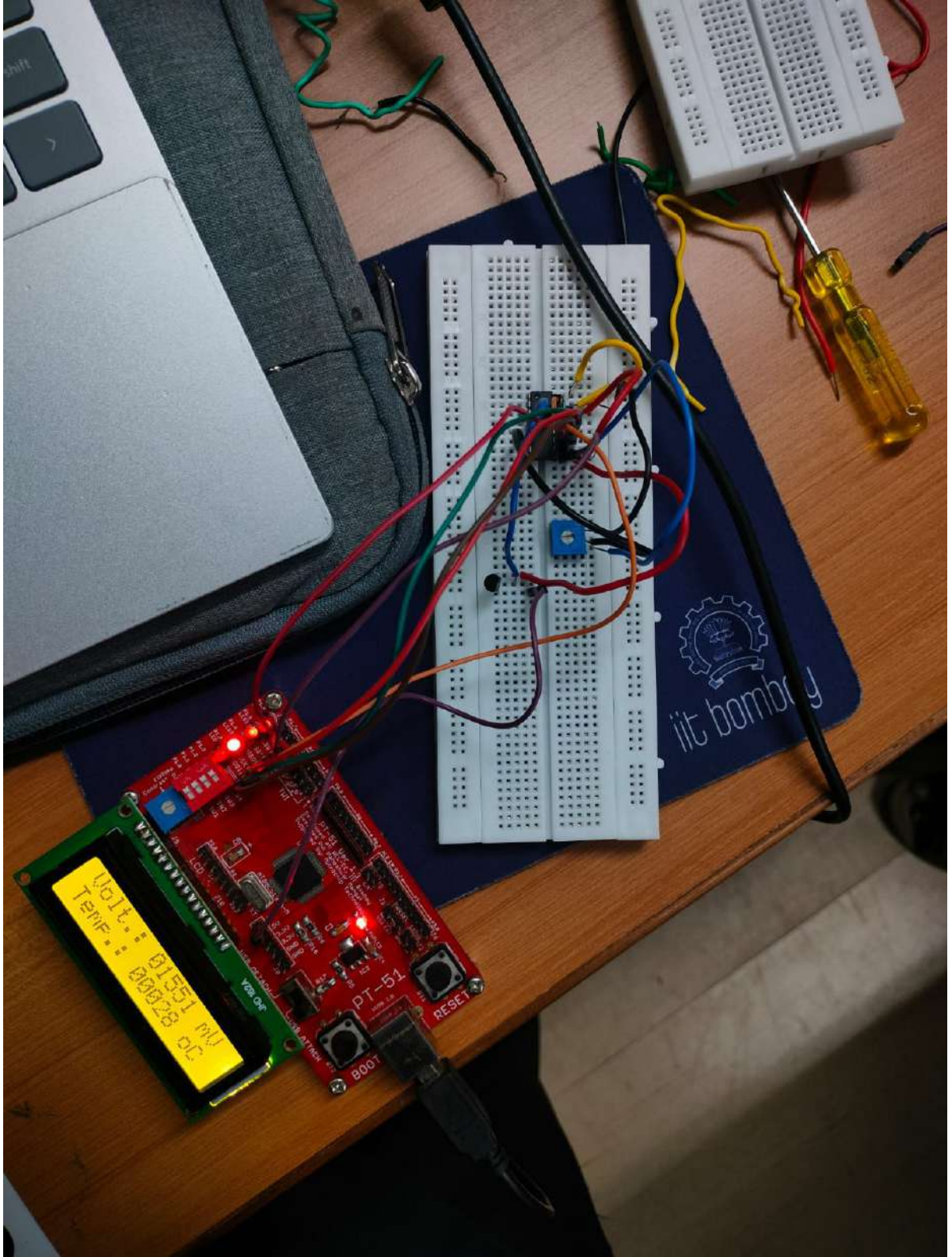
main.c spi.h

```
41        (2) Configure SSDIS to disable SSBAR thus
42            P1.1(SSBAR) will be available as standard I/O pin
43
44        (3) Configure clock polarity s.t. sck from uC set to 1 in idle state
45            Refer to SPCON register table no 19-3 from AT89C5131 datasheet
46
47        (4) Configure clock phase i.e. CPHA: Refer SPI timing
48            diagram of ADC IC (figure no. 6-2 in MCP3008 datasheet)
49            first and then table no 19-3, figure no. 19-4 to 19-6 in AT89C5131 datasheet
50            to choose approriate CPHA value
51        (5) Fclk/16 & Fclk Periph=12MHz ,thus BAUD RATE=750KHz
52
53        (6) Enable SPI interrupt (i.e. configure IEN1 and EA)
54        (7) Enable SPI module (i.e. configure SPCON )
55    */
56
57
58  //  SPCON = 0X1F;
59  //  IEN1|= 0X04 ;                                   //enable spi interrupt IEN1 |= 0x__
60  //  EA= 1 ;                                         //enable interrupts EA=_;
61  //  SPCON|= 0X00;                                 //Enable spi module
62
63    SPCON = 0X3F;
64    IEN1|= 0X04 ;                                   //enable spi interrupt IEN1 |= 0x__
65    EA= 1 ;                                         //enable interrupts EA=_;
66    SPCON|= 0x40;
67  }
68
69  /*************************************************************
70    spi_trx():
71
72    Transmits 3 bytes to SPI slave and receive 3 bytes.
73    These 3 bytes are packed into 4 bytes as long datatype.
74  *************************************************************/
```

Build Output

```
Program Size: data=46.1 xdata=0 code=1782
creating hex file from ".\Objects\lab9a"...
".\Objects\lab9a" - 0 Error(s), 0 Warning(s).
Build Time Elapsed:  00:00:01
```

Simulation L:1 C:1 CAP NUM SCRL OVR R/W


Volt.:-01551 mV
Temp.: 00028 oC
PT-51
RESET
BOOT
iit bombay