Chapter 3

Q3

Port B: bits 0~15

Port C: bits 12~15

Port D: bits 0~11

Port E: bits 0~7

Port F: bits 0 1 3 4 5

Port G: 2 3 6 7 8 9

RE 0: pin 60

Implemented: bits 0~4, 8~10, 12, 16~22

Unimplemented: the rest

Q4 & Q5 attached

Q7

The .o file includes all the addresses if SFRs that will potentially be useful. However, the final .hex file does not include those addresses that will not be in use.

Q9

TRISDSET = 0b1100;

TRISDCLR = 0b100010;

TRISDINV = 0b10001;

Chapter 4

Q1

Private:

#define NU32\_DESIRED\_BAUD 230400

Not private:

void NU32DIP\_Startup(void);

void NU32DIP\_ReadUART1(char \* string, int maxLength);

void NU32DIP\_WriteUART1(const char \* string);

#define NU32\_LED1 LATFbits.LATF0 // LED1 on the NU32 board

#define NU32\_LED2 LATFbits.LATF1 // LED2 on the NU32 board

#define NU32\_USER PORTDbits.RD7 // USER button on the NU32 board

#define NU32\_SYS\_FREQ 80000000ul

Q2 attached