

## ELEX 7820 Assignment One 7Sep2017

In this assignment, you will gain experience with and/or review these C constructs:

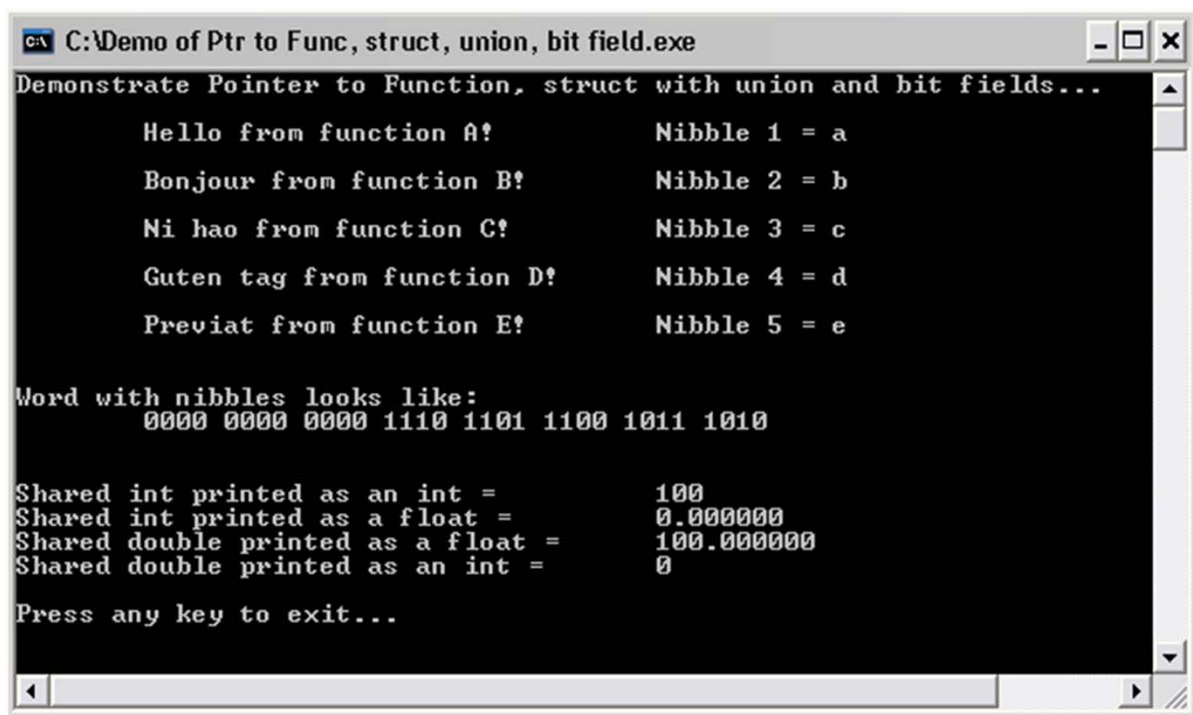
- pointer-to-function
- struct
- union
- bit-field

These constructs are used in the software to program the T.I. Piccolo processor in the lab. Starting with the template file, add C code that generates the console session shown below. (You can run the example exe to see what it does.) Use a C project, not a C++ project. Name your files that you submit in the following format:

LastNameFirstNameA00xxxxxxAssign1.x

(Ignore any compiler warnings to do with printing an int as a float or vice-versa.)

**SUBMIT YOUR .c AND .exe ("Release" VERSION) FILES TO D2L BY THU 14SEP2017 NOON**



```
C:\Demo of Ptr to Func, struct, union, bit field.exe
Demonstrate Pointer to Function, struct with union and bit fields...

Hello from function A!           Nibble 1 = a
Bonjour from function B!         Nibble 2 = b
Ni hao from function C!          Nibble 3 = c
Guten tag from function D!       Nibble 4 = d
Previat from function E!         Nibble 5 = e

Word with nibbles looks like:
0000 0000 0000 1110 1101 1100 1011 1010

Shared int printed as an int =    100
Shared int printed as a float =   0.000000
Shared double printed as a float = 100.000000
Shared double printed as an int = 0

Press any key to exit...
```