DASL 130 – C Programming Course

Lecture 6

Common Libraries

stdbool.h

Provides:

- true constant = 1
- false constant = 0
- bool type
- Use with logical operators

Random Numbers

- Random numbers are pseudorandom - there is always an algorithm behind the generation

- #include <stdlib.h> (gives you the rand() and srand() functions)

- #include <time.h> (gives you the time() function)

Random Numbers

- srand(int)

  ○ set the seed – number used as basis for sequence of random numbers

  ○ same seed = same sequence of numbers

  ○ default seed is '1'

For more random randomness set the seed by:

- srand(time(NULL))

rand() returns in the range from 0 to RAND_MAX

Making A Library - Header

Header File (*filename.h)*

- Start with:

   #ifndef _ID_

   #define _ID_

- Add prototypes for all functions in *filename.c*

- If you have type definitions put them in the header

- End with #endif

Making A Library - Source

Source File (*filename.c)*

- Start with:

  #ifndef _ID_

  #define _ID_

- Add all function definitions (not prototypes) to the middle

- End with #endif