Lecture 06

- control Z in terminal keeps emacs in background while using terminal

- bg transfers control back to emacs while also allowing use of terminal

- launch emacs with & after for same effect

- return 0 for success

- non-zero return value indicates failure of operation

- when checking equivalence (a = b), use integers fabs returns absolute value

- for loop parts:
  - counter initialization
  - test condition
  - counter update
  - body of execution

  for (initialize counter; test condition; counter update) & statement block;

ex. for (i = 0; i < n; i++) { /* loops n times: i = 0 to i = n-1 */

- break statement prematurely exit loop

- continue statements skip to next iteration of loop

- counters are commonly i, j, k, l, m, n

- use constants to define (ex. const int Nloops = 10)

- scope refers to where variables can be accessed

  - local scope - only in that function

  - global scope - anywhere in code
variables created in functions are temporary
variables declared static in function blocks are preserved between function calls

two types of C functions:
- pass-by-value
- pass-by-reference

pointers are like variables that provide direct access to the memory location for a specific variable - gives more power & freedom & means "address of"
-lop used for printing memory addresses