

Subroutines

- Named collections of statements with call/return support
- Some communication mechanism needed, shared memory locations or parameter passing/return values
- Typically rely on call stack, with frames pushed on call, popped on return (enables recursion)
- Scoping rules crucial
- May/may not support nested function declarations, function overloading, generic/templated functions, higher-order functions

Syntax/terminology

- Header: name, type, profile (formal parameters)
- Profile: number, order, types of parameters
(protocol: also specify return type)
- Definition: header + body
- Call: explicit request to execute, with actual parameters (caller makes the call, callee is the one called, caller suspended while callee runs, then control returns to caller)
- Return value(s)
- Functions vs procedures