

Functions & Modules

Functions

- A chunk of coded that can be called by name to perform a task
- Often require **arguments** or **parameters**
- Arguments may be optional or required
- When a function completes its task, it may **return a value** back to the part of the program that called it

Modules

- Functions included in the Python library
- To use a module, write name of module as a qualifier, followed by dot (.), and name of the resource, e.g. math.pi
- Can avoid use of qualifier with each reference by importing individual resources, e.g. **from** math **import** pi, sqrt
- Can import all of a module's resources to use without qualifier, e.g. **from** math **import** *

Programme format and structure

1. Comment with author's name, purpose of program, and other relevant info
2. Import any modules needed by program
3. Initialise important variables, suitable commented
4. Prompt user for input data and save the input data in variables
5. Process inputs to produce results
6. Display results