#ICS 31, Tuesday 8 October 2013

Things/nouns/objects/ DATA structures

Actions/ verbs/ functions, operators, methods,…/ control structures

Organize/navigate

**Object oriented programming-** reflecting the real world

Namedtuples: simplest way to do Object-Oriented Programming in Python

>>>Type(‘Hello’)

<class ‘str’>

RC.sort(reverse=True)>>> sorts in reverse order

Cookbook>lists ingredients>procedures(sugar, oven, blah blah)> while the cake is baking using page 23 for chocolate> *reduce the clutter*

Encapsulate that task, save ourselves from duplicate code. Lead to inconsistency

Programmer-defined fnctions:

Modularity: Dividing a big thing into components.

Define functions (like sub-recipes) to:

Reduce clutter

Produce components for re-use

Allow replacement of components

Avoid duplicate code

Syntax for function definition:

Def Function-Name 9PARAMETER(S) ):

BODY-OF-FUNCTION (usually ending with return statement)

>>assert will check code if correct or wrong >> no error message is good news