Writing Useful Functions Day 13 — PH 365

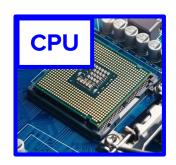
13 Nov 2024

Announcements

- Project grading should be done in the next day or two
- Extra help on coding Vincent is offering semi-structured help time until 4pm after class ends
- Today, document your errors

Reviewing Functions – Syntax

Reviewing Functions – Computer Usage



Defining a function:

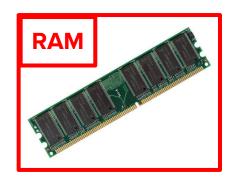
def function_name(arg1, arg2):
 indented code
 return some value

function_name
becomes a variable.

Calling a function:

new_value = function_name(5, 2.3)

function_name's code is
executed using arg1=5 and
arg2=2.3; new_value
becomes a variable.



function_name's code is stored, but has not been run yet.

new_value takes on the
value that gets returned
from function_name
after being executed.

History of Functions

Kay McNulty – ENIAC programmer

John Mauchly – physicist

Invented functions or "callable units" for use in ENIAC

Functions saved memory by embedding many computational possibilities into one chunk of code







Remember

Document your errors today!

See Task 0.1 for link.