

Outline for October 20, 2022

Reading: §4.5

Assignments: Homework 2, due October 20, 2022

1. Using random numbers
 - (a) Problem: compute π by tossing darts at a unit square
 - (b) First build routine to simulate dart toss at unit square [*mc-1.py*]
 - (c) Then build routine to see if co-ordinates are in unit circle [*mc-2.py*]
 - (d) Then build routine to read in number of tosses [*mc-3.py*]
 - (e) Put it all together [*mc-4.py*]
 - (f) Graphics! [*mc-5.py*]
2. More recursion
 - (a) Sum of digits [*sumdigits.py*]
 - (b) Greatest common divisor [*gcd.py*]
 - (c) Nested lists: is an item in a list? [*isinlist.py*]