Here's a generator that gives successive digits of pi:

def pi\_digits():

k, a, b, a1, b1 = 2, 4, 1, 12, 4

while True:

p, q, k = k\*k, 2\*k+1, k+1

a, b, a1, b1 = a1, b1, p\*a+q\*a1, p\*b+q\*b1

d, d1 = a/b, a1/b1

while d == d1:

yield int(d)

a, a1 = 10\*(a%b), 10\*(a1%b1)

d, d1 = a/b, a1/b1

[ http://mail.python.org/pipermail/edu-sig/2012-December/010728.html ]

>>> pi = pi\_digits()

>>> "".join([str(next(pi)) for i in range(100)]))

'3141592653589793238462643383279502884197169399375105820974944592307816406286208998628034825342117067'

All good.

What we don't cover are "coroutines" where a generator is made to spiral with a paired driver to completion.

Recent posts (of mine) on the topic, in one of the Python community groups (the one I've most frequented):

https://mail.python.org/pipermail/edu-sig/2016-January/

-Kirby