How do I Teach a Computer to Accumulate?

The Accumulating Pattern in Python



Accumulating in Python

- Def: Accumulating is two things:

 1. Changing by a variable amount
 2. Remembering where you are

- Accumulating involves:
 - 1. Addition
 - 2. A variable

<u>e.g.</u>

```
c = 0 #start the total

c = c+5 #increment the total

c = c+8 #increment the total

print(c) #show the total
```

Def: The Accumulating Pattern is a Python instruction that looks like this:

$$c = c+n$$

Fact: The Accumulating Pattern is a lot like counting only by a different number each time!

```
<u>e.g.</u>
1 : c = 0
2: c = c + 2
3: c = c + 3
4 : C = C + 8
5: c = c + 1
6: print (c)
```

e.g.

```
1: c = 0

2: for _ in range (4):

3: n = input ("?")

4: n = int (n)

5: c = c + n

6: print (c)
```