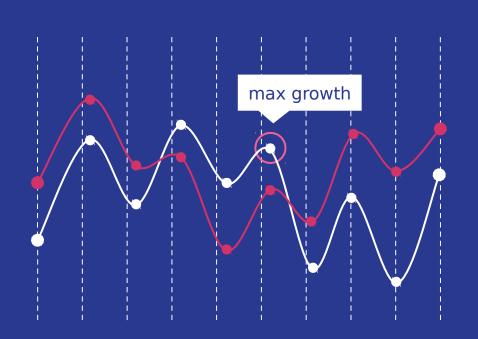


Introduction to Computer Programming

CMP 201 (2019/2020)

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LESSON 4: Be a Ninja Coder!

Objectives

The aim of this lesson is to build on the foundational knowledge given to the students in the first lecture.

Content(Week

1)

● Loops

Python Loops:

Nothing is worse than having to do the same thing over and over again.

To print hello five times in Python, you could do the following

```
print ( "hello" );
```

Python Loops:

Now, lets try to write the following

```
for x in range(0, 5):
print ("hello")
```

PUZZLE:

```
words= [ 'cat', 'mouse' ]
  for word in words:
    print ( len( word ) )
```

Python Loops:

Python has two primitive loop commands:

- while loops
- for loops

While Loop:

With the while loop we can execute a set of statements as long as a condition is true:

```
#Print i as long as i is less than 6:
i = 1
while i < 6:
  print(i)
  i += 1</pre>
```

While Loop:

Note: remember to increment i, or else the loop will continue forever:

Break statement:

With the break statement we can stop the loop even if the while condition is true:

```
#Exit the loop when i is 3
i = 1
while i < 6:
  print(i)
  if i == 3:
    break
  i += 1</pre>
```

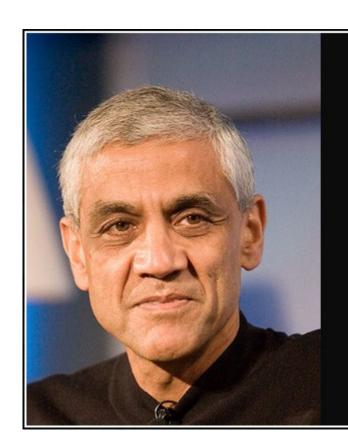
Continue statement:

With the continue statement we can stop the current iteration, and continue with the next:

```
#Continue to the next iteration if i is 3:
    while i < 6:
    print(i)
    if ( i == 3 ):
        continue
    i += 1</pre>
```

EXERCISE (Uniqueness in code earns extra credit).

Each question should be kept in a single .py file
 then all zipped in a file
 with your matric No. as name of the file



Doctors can be replaced by software – 80% of them can. I'd much rather

have a good machine learning system diagnose my disease than the median or average doctor.

— (Iinod Khosla —

AZ QUOTES