Thangs to know about Python

**Libraries:**

math

os

random

re

sys

**Syntax:**

Shebang: #!/bin/python3

Comments: # for comments

Function: def functionname(params):

Return x

If statement: if (condition):

Elif:

Else:

For Loop: for var in range(int) 🡨 default is 0

For var in range (2: 6) 🡨 all numbers from 2 to 6 not including 6

While Loop: while (condition):

If (condition):

break

**Strings:**

Example: string = ‘foobar’

s[0] is ‘f’, s[1] is ‘o’, etc.

also can backward index: s[-1] = ‘r’, s[-2] = ‘a’, etc.

**:**

**Lists:**

Listexample = [‘Ron’, ‘Steve’, ‘John’]

Listexample.append(‘Jeremy’) 🡨 [‘Ron’, ‘Steve’, ‘John’, ‘Jeremy’]

Listexample.insert(0, ‘Mohammed’) 🡨 [‘Mohammed’,‘Ron’, ‘Steve’, ‘John’, ‘Jeremy’]

List.pop(0) removes first element

**Classes:**

class ListNode:

Initialize

def \_\_init\_\_(self, x):

self.val = x

self.next = None

Initialize with x = Listnode(1)

**Functions:**

**Trivia:**

-automatically assigns datatypes

-uses : and indents to read, formatting matters

class Solution:

def addTwoNumbers(self, l1, l2):

carry = 0

solNode = ListNode(None)

solNodeOut = solNode

First = True

tempint = 0

while l1 != None or l2 != None:

if l1 != None:

tempint += l1.val

l1 = l1.next

if l2 != None:

tempint += l2.val

l2 = l2.next

tempint += carry

if tempint >= 10 :

carry = 1

tempint = tempint - 10

else:

carry = 0

solNode.next = ListNode(tempint)

solNode = solNode.next

tempint = 0

if carry == 1 :

solNode.next = ListNode(1)

solNode = solNode.next

return solNodeOut.next

#! /Library/Frameworks/Python.framework/Versions/2.7/bin/python

if \_\_name\_\_ == '\_\_main\_\_':

# This is your main function.

print('I\'m a huge bean')

pass

Baileys-MacBook-Pro:PokerAI giguerefan$ ls

main.py

Baileys-MacBook-Pro:PokerAI giguerefan$ python main.py

I'm a huge bean

Baileys-MacBook-Pro:PokerAI giguerefan$ ./main.py

bash: ./main.py: Permission denied

Baileys-MacBook-Pro:PokerAI giguerefan$ chmod +x main.py

Baileys-MacBook-Pro:PokerAI giguerefan$ ./main.py

bash: ./main.py: /bin/python2.7: bad interpreter: No such file or directory

Baileys-MacBook-Pro:PokerAI giguerefan$ which python

/Library/Frameworks/Python.framework/Versions/2.7/bin/python

Baileys-MacBook-Pro:PokerAI giguerefan$ ./main.py

I'm a huge bean

Baileys-MacBook-Pro:PokerAI giguerefan$