```
w'mode will create a file, it it does not
                                                                                                  Sets: nums, add (-1) nums, remove (3)[112
Python 3 SL Review LIJIA XU (1/2)
                                                                                                  numset={1,2,3,4,5} first ={1,2,3,4,5,6}
                                                already exist two safeways to open tiles
Floats can be created by division on ints
                                                                                                  word_set = set(["A","B", "c"]) | second={4,5,6,7,8,9}
                                                                               f=open (test,txt)
                                                msg="Hello World!"
2**5 >32 9**(1/2) >3.0 20116-3
                                                                                                  print (3 in num set) | first & second (4,5.6
                                                tile = open ("test, txt" "w") print (t. readis)
1,25%, 0,5 > 0,25 \ use Backslashes for osciales
                                                                                                  print ("spam" not in ward set) ( = 1,2,37
                                                amount_written = tile, writeling) | timally:
11 11 11 > new lines automatically escaped
                                                                                                                                  second-twsts
4*'2' > '2222' int ("2") + int ("3") = 5 a72 print (amount written) with open (test, txt) ast. 4 tuple might represent a
                                                                                                  dictionary key, because impartable {8,9,73
                                                file. closel) # apport 12
 st be Int use del your float (input ('zmer')) True
                                                None, O, [] and "" is False ages = { "A" = 20, "B" = 25}
                                                                                                  class Animal: Magic Methods methods which
num=7 and, or, not & operators 4==9,0
                                                                                                    def_init_(self, idor, legs); have - at the
                                                                   tuples print (ages ["A"]) # 20
                 == has higher than or Trule
                                                                                                      self. color = color sub - begind and and
1+ num == 5:
                                                pairs={1: "apple"
                                                                   Words = (A", B", "C") ox = "A", 8, "C
  print ("155") 1:0
                  while true > shipz
                                                                                                      self. legs = legs -mal - mod - ror-
                                                  "A": [2,3,4],
                                                                   print (words (D)) # prints "A"
elit num == 7:
                                                 True: aleny }
                                                                   empty tuple: > tpl=L)
  print ("157")
                    if i == 2. breaking
                                                                                                                        classA:
                                                pairs.get (1,"A")
                                                                   nums= [1, 2, 3, 4, 5] nums(3) class Dog (Animal):
                      print ( skip 2) timished
                                                                                                      det bank(selt)
                                                 # prints "okas"
                                                                   print(nums[1:3]) #[1,2,3]
  print (not 5017)
                                                                                                                       det symm(self) -ne-!=
                                                palvs.get(87, "A")
                      continue
                                                                                                       print "wans!"
                                                                   # > [2,3) nuns[3:] > # [4,5]
                                      num=[1,23
                                                prints [2,3,4] Asicing can happen to tuples
List=[1,2,[1,2]]
                                                                                                  bob = Dog("Brown", 4)
                                                pairs, got (55, "No result") nums [: 2] = #11,3,5]
                       print (brearly) Num=[]
                                                                                                                          super. spam() - 9e ->=
paint(liste)(0)
                                                                                                                        BU. spain() len_len()
                                      * List
                       break
                                                                       nums[:4;2]=#[1,3]
                                                                                                  bob. barkl)
                                    can have April "No result"
                                                                                                                        # 7 -get/tem_ indexing
4 In operator
                     print(i).
                                                                   hums[::-1] > #[5,4,3,2,1]
to chepiten in list print (finished) several
                                                                                                  class Vector2D:
                                                (ubes=Ei*3 for 1 in range(5)] $10,4,16,36,64
                                                                                                                             -settem_assign vals
                                                                                                    det_init_ (sett, x, y):
                                                KO,1,8,27,64] | evens=6:442 for Lin varige (10) it 12=6
                   print (4 not la list) types
                                                                                                                             -delitem-delindex to
print ( 1 in list)
                                                                                                      self. X = X
True True
                                                 nums = [4,5,6] (a="5x3, {y}", tornat (x=5, y=12)
                                                                                                   det_add_(self, other) -iter_in.tor loops
det_add_(self, other) -contains_in
                      nums append(4)
                                                 msg = "Number: {0}{1}{0} 13{0}" + ormant (nums[0] nums[1])
nums, ridex ( one)
                      print (len (nums))
                                                print (", "join ([1,2,3])) nums = [55,44,33,22,1]
                                                                                                      return Vector2D(set.X+other.X, self.y+other.y)
max (list) min (List)
                      index = 1 numingert line of 4
                                                #"1, 2,3" [+[1,2,3] | talkinstorinnums]
                                                                                                   Time are all consenting adults here"
List, (ount (obi)
                      timert intract of index
                                                print ("1,2,3" splitt",")) print (all larger 5")
                                                                                                   weakly private method =) singule some in front
list vemovelosi,
                     nums = list(range(10))
                                                                           It any (11/2== Ofor in and)
                                                Text Analyzer
                                                                                                   * from module name import Not import with_
 list veverse
                      (0 - 9) range (0, 10)
                                                                             pint lat least anceron)
                                                                             for Vin enumeraleling strong privat method - Class Methods
                                                det count chur (text, char);
                     list (range (2, 6,2),
for num in nums
                                                                                                   access: _Spam_printemethod cls, self-capped
                                                   count=0
  Print(num)
                                                                              prhot(V)
                     [2,4] & not include b
                                                                   pure func:
                                                   for c'in text:
for i'n rangels) DRY - Don't Repeat Yourself we Enjoy
Print("Hi") WET -> Write Engelthing twice Typing
                                                     the char: return a
                                                                             # (0,55) ..... (4,11
                                                                                                   class Spam: | class, Rectangle:
                                                       count += 1
                                                                                                                    det_init_left, with he
                                                                   only depends on their aggments
                                                   return count
det add (x,y): a=5
                          import random #malde
                                                                                                    det print_egg (self): | self.widthewidth
                                                                                                   print(seff. egg) | self. height = height

s = Spand) | detralcalate aveg(self)

return self in lateral
  return x+y b=10
                                                filename=input ("Enter a name:") #lambda
                          for i'm range (5): # Oto 4
det do-twill (func, x, y) Value=rondom rankit
                                                with open (tilename) as til Print (llambdax: x 2)
                                 print(value) (1,6)
                                                                                                                          return self width * set height
                                                                            square = lambda X: XX 2
                                                   text = f. rend()
  return functione(x,y), tune(x,y) # 5 vals toom # 1 to 6
                                                for char in abide (shi) - 2": res = List (map (loubda
                                                                                                   s. print egg() #7 @ class method
print (do twice(add, a, b)) from math ignt pright
                                                                                                  print(s._spam_egg) #7 det new squanelds.
                                                                                                                                side leigth):
                                                   perc = 100 tount char (text/char)/lantext) nums)
# outputs 30 from math import pi as plo module
                                                                                                  print (s. _ egg) Herror veturn cls/side length
Exceptions | wy print(pie) | Raise Exceptions
                                                  pr/mt (" {0} - {13 %". + ormert (class, round (perc2)) [6,7,8]
                                                                                                   class Pizza: # Static Methods side length)
Index 21101 except 2010 Division Error: assertion is
                                                                                                    det_init_ (self. toppings): Fquare = Rectangle, now
                                                 ilter nums = [1, 2, 4, 7] or [x for x in nums it x]. 2=0
Wenne ZV/OV print (d', renoerror) a sanity-chech
                                                    = list(fifter((amoda X: X1.2==0, nums)) #[2,4]
Syntax Zwor except Valuetwar, Typethor: temp=-10
                                                                                                      self toppings = toppings | square(5)
                                                Generato 15 (vecommand) Decorators
Type 29101 except: # (atch all ewors "colder than value 21101 print (evror)" absolute 290"
                                                                                                   Ostaticmethod property an make read
                                                                        - det decorltanc)
                                                det numbers(X):
                                                                                                    det valldate topping (topping); det a allo
                                                                       def wrap():
                                                  for z in vange(x):
                                                                          prhit ("=====")
                                                  it 2% 2 == 0:
Lovo Division Findly: Hrun even with and patile does
                                                                                                       it topping = = "pineapple"; | Yeturn False
Assertion Print ('must run') & alway close tile
                                                         yield'i 1
                                                                           prht( = = = = = ")
                                                                                                         Vaise Value Ewor "No phrappes!") Proports
mytile= open ("tilename. txt", "w") front=ofle, real print (List(numbers(1))) peturn wrap
                                                                                                      els: la a-allowed setter
"r" read made, detault for line in my tile print (line)
                                                # (0,2,4.6,8,10] det print_text()
                                                                                                   return True Property example, ingredients = ["A", 8", ""] Regulation, check pythonicus page 2
                                                                          print ["Hello, world")
                                                 det court down(): decorated = decor (Print text.
"n" write mode, rewrite
                           mytile rend mesu
a append mede
                                                                     decorated () for
                                                                                                   it all (Pizza. validate topping (2) for i'm ingredients);
                         # return a list of lines
                                                    whileizo
                                                    yield i for xincount down & decor
b' bin my mode, non-txt
                                                                                                     pizza = Pizza (hyrediants)
                          file, rend (4)
                                                    i-= | print (x) | det print text():
                         return another 4 tytes
len (open "Hext. +x+") real hood)
                                                                                brat ("Helloward!"
```