Cheatography

nus cs1010s python Cheat Sheet by otkl via cheatography.com/179565/cs/37358/

Types of Errors		
IndexError	Raised when the index of a sequence is out of range	
NameError	Raised when a variable is not found in the local and global scope	
Syntax- Error	Raised by the parser when a syntax error is encountered	
TypeError	Raised when a function/ope- ration is applied to an object of an incorrect type	
Unboun- dLocal- Error	Raised when a reference is made to a local variable in a function/method, but no value has been bound to that variable	
ZeroDivis- ionError	Raised when the second operand of a division/module operation is zero	
ValueError	Raised when a function gets an argument of a correct type but improper value	
Memory- Error (Recursio- nError)	Raised when an operation runs out of memory	
Runtim- eError	Raised when an error does not fall under any other category	

Alphabetical Order (ASCII Table, ord & chr)

```
48: 0 49: 1 50: 2 51: 3 52: 4 53: 5 54: 6 55: 7
56: 8 57: 9 58: : 59: ; 60: < 61: = 62: > 63: ?
64: @
65: A 66: B 67: C 68: D 69: E 70: F 71: G
72: H 73: I 74: J 75: K 76: L 77: M 78: N 79:
O 80: P 81: Q 82: R 83: S 84: T 85: U 86: V
87: W 88: X 89: Y 90: Z
97: a 98: b 99: c 100: d 101: e 102: f 103: g
104: h 105:i 106: j 107: k 108: I 109: m 110:
n 111: o 112: p 113: q 114: r 115: s 116: t
117: u 118: v 119: w 120: x 121: y 122:z
ord('A') = 65, chr(66) = 'B'
0 < 9 < 'A' < 'Z' < 'a' < 'z'
A B C D E F G H I J K L M N O P Q R S T
U V W X Y Z
```

Loop Statements		
break	Terminates the whole loop	
continue	Stops the current iteration of the loop, and goes on to the next iteration of the loop	
pass	Does nothing and continues the rest of the code inside the current iteration of the loop	

Boolean Values

False evaluates to 0; int(False) == 0, while True evaluates to 1; int(True) = 1 On the other hand, any empty str, tuple, list (", (), []), the value 0 and None evaluates to False; bool(0/None/""/()) = False, and any other expression will evaluate to True; bool(1/-95/"CS1010S is fun"/("C", "S", "S", "U", "C", "K", "S")) = True

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String Slicing Mechanism

s = 'abcdef '	
0 1 2 3 4 5	
-6-5-4-3-2-1	
s[start(inclusive):stop(exclusive):step]	
e.g.	
s[1:] = 'bcdef'	
s[3::-1] = 'dcba'	
s[6:] = "	
s[2:-6:-1] = 'cb'	

Tuple and string functions		
len()	Returns the length of the string/number of items in the tuple	
max()	Returns the largest item in the tuple	
min()	Returns the smallest item in the tuple	
sum()	Returns the sum of all elements in the tuple	
tuple()	Converts an iterable into a tuple	
tuple.c ou- nt(ele)	Counts the number of occurrences of an element in a tuple	
str.in- dex- (ele)	Searches the string for a specified ele from the left and returns the position of where it was found	

Checking data type

type(value) ==	isinstance(value,
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