**LIST**

**Simple Operations**

#1. Iteration

for lannister in lannisters:

print lannister

#2. Length

print(len(lannisters))

#3. Concatenation

ll = lannisters + lannisters

#print(l)

#4. Repetition

l4 = lannisters\*4

#print(l4)

#5. Membership

print('Alive' in l3)

print(['Alive'] in lannisters)

**Methods**

li = ['Daenerys Targaryen', 'Arya Stark', 'Cersei Lannister', 'Jon Snow', 'Petyr Baelish', 'No one']

#1. append()

contender1 = '' #Any favorites?

li.append(contender1)

print (li, '\n')

#2. extend()

contenders = ['', '', '']

li.extend(contenders)

print (li, '\n')

#3. insert()

li.insert (0, 'Eddard Stark')

print (li, '\n')

#4. remove()

li.remove ('Eddard Stark')

print (li, '\n')

#5. pop()

rand = randint (0, 8)

winner = li.pop(rand)

print ("The Iron Throne belongs to: ", winner, '\n')

#6. reverse()

li.reverse()

print (li)

#7. clear()

li.clear() #equivalent to del li[:]

print (li)

**.CSV**

**Reading**

#using File I/O

with open("character-deaths.csv", "r") as fa:

rows = []

for line in fa:

values = line.split(',')

rows.append(values[0:])

for row in rows:

print (row)

#using csv module

import csv

with open("character-deaths.csv", "r") as fb: #opens file as read-only

reader = csv.reader(fb)

#for line in reader:

#print (line)

**Writing**

#Python: Writing CSV files

lists = [['one',1],['two',2],['three',3]]

#using File I/O

print(lists)

fa = open("mydataset\_a.csv", 'w')

for l in lists:

l\_ = ','.join(l)

fa.write(l\_)

#p = fa.readlines()

#print(p)

fa.close()

#using csv module

import csv

with open("mydataset\_b.csv", 'w') as fb:

writer = csv.writer(fb, delimiter=',')

for l in lists:

writer.writerow(l)

fb.close()

fb = open("mydataset\_b.csv", 'r')

p = fb.readlines()

#print(p)

fb.close()

**DICTIONARIES**

**Built In**

cl = {'Name': 'Cersei', 'Age': 7, 'House': 'Lannister'}

#1. keys()

#returns list of dictionary keys

print(cl.keys())

#2. values()

#returns list of dictionary dict's values

print(cl.values())

#3. items()

#returns a list of dict's (key, value) pairs

print(cl.items())

#4. update()

#adds dictionary dict2's key-values pairs to dict

status = {'Status': 'Alive'}

cl.update(status)

print(cl)

#5. in

#returns true if key in dictionary dict, false otherwise

print('Alive' in cl)

#6. clear()

#removes all elements of dictionary dict

cl.clear()

print(cl)