out.md

!/usr/bin/python3

Lists

python lists are ordered collection of heterogenious objects l = [1, 2, 3] print(l)

append() vs extend()

- append will add the object to end of the list it takes only one object
- append will add the object as it is at end
- extend will extend the list with passed iterable
- extend will add the elements of the iterable passed to the list at end of the list
- if we extend list with dict only keys will be added to the list not values

```
t = (40, 50, 60)
l.append([4, 5])
print('append a list to list', l)
l.extend([6, 7])
print('extend a list with list', l)
t = (20, 30)
l.append(t)
print('append a tuple to list', l)
l.extend(t)
print('extend a list with tuple', l)
d = {'first':1, 'secoend':2}
l.append(d)
print('append a dict  to list', l)
l.extend(d)
print('extend a list with dict ', l)
```

_remove() va pop()

- remove() will remove the first occurence of the passed element
- if nothing is found the an error will be raised
- pop() will remove the last element of the list
- pop() can remove the element based on the index if its passed

```
print('REMOVE VS POP')
l1 = [10, 20, 30, 40, 50, 60, 70, 80, 90]
print(l1)
print('remove 10 from list')
l1.remove(10)
print(l1)
print('pop list')
l1.pop()
print(l1)
l1.pop(3)
print(l1)
```