**LIST FUNCTIONS AND METHODS**

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| **list()** | creating a list, |
| **len()** | To determine how many items a list has |
| **.range()** | you can use this function to create an iterable.  **newlist = [x for x in range(10)]**  **newlist = [x for x in range(10) if x <5]** |
| **.upper()** | Set the values iin the list to upper case:  newlist=[**x.upper**() for x in fruits] |
| **.append()** | To add an **item** to the end of the list, use the  method. |
| **.extend()** | To append **elements from another list**to the current list: **extend(list2)** The extend() method does not have to append lists, **you can add any iterable object** (tuples, sets, dictionaries etc.) |
| **.insert()** | To insert a list item at a specified index |
| **.remove()** | Removes the specified item. thislist.: **remove("banana")** |
| **.pop()** | Removes the (last or) specified index. **thislist.pop(1)** |
| **del** | Tel keyword also removes the specified index: **del thislist[0]**  del keyword can also delete the list completely. **del** **thislist** |
| **.clear()** | Empties the list. The list still remains, but it has no content. |
| **.sort()** | Sort the list alphabetically. Sort the list descenting 🡪 sort(**reverse=True**)  case sensitive! resulting in all capital letters being sorted before lower case letters: **thislist.sort(key=str.lower**) 🡪 if you want a case **INsensitive** sort function |
| **.copy()** | Make a copy of list. Another way to make a copy 🡪 list() ; mylist=list(thislist) |
| **+** operator | Join two or more lists.; **list3=list1+list2**  Also **.append()** and **.extend()** can be use. |
| **.index()** | Returns the index of the first element with the specified value. |
| **.reverse()** | Reverse the order of the list. |
| **loop through the list items:**  for i in thislist  **loop through the list items by referring to their index number:**  for i in range(len(thislist))  **loop through the list items by using while loop:**  i = 0  while i < len(thislist): print(thislist[i])  i = i +a  .  **print(x) for x in thislist; newlist = [x for x in fruits if “a” in x]**  **Select elements and create a new list with for loop and if statement:**  fruits = ["apple", "banana", "cherry", "kiwi", "mango"]  newlist = [x for x in fruits if "a" in x]  print(newlist)  ['apple', 'banana', 'mango']  **Changing a element with if statement:,**  newlist = [x if x != "banana" else "orange" for x in fruits]  # banana değil ise yaz, banana ise orange yaz.. yani banana yerine orange yaz.  print(newlist)  ['apple', 'orange', 'cherry', 'kiwi', 'mango'] | |