4. Set

'Sagi' in tel # Output: True
'Amit' not in tel # Output: False

Create a set opt1 | set1 = {10, 20, 30}; opt2 | set1 = set(10, 20, 30); empty | set1 = set() Create a set from a list / string set_from_str | set1 = set("hello") **Set Comprehension** opt1 | set1 = {i for i in range(10)} ; - opt2 | set1 = set(i for i in range(10)) - # Output will be {0, 1, 2, 3, 4, 5, 6, 7, 8, 9} **Set Operations** • Add item: 💠 add_to_set | the_set.add("this", 8) • Remove/Popitem: 👲 remove_from_set | the_set.remove(8, "Yon") ; 👲 pop_from_set | the_set.pop(index_num) • Get length of a set: 🤚 len_of_set | set1_len = len(set1) • Intersect 2 sets: 💠 intersect_sets | intersected = set1 & set2 • Union 2 sets: ♦ unioned_sets | unioned = set1 | set2 • XOR 2 sets: 👶 xor_sets | xor_set = set1 ^ set2 • Diff 2 sets: - diff_sets | unioned = set1 - set2 Check if subset (contained): is_subset | print(set1 <= set2) # True/False 5. Dictionary Create a dict option1 | dict1 = dict(book_id = var_id, title='AOT', votes = 0) option2 | dict1 = {"book_id":var_id, "title":"AOT", "votes":0} option3 | dict1 = dict([("book_id", var_id), ("title", "AOT"), ("votes",0)]) Get item in location 🥏 example1 | if book['genre'] == the_genre: 🤚 example2 | book['votes'] += 1 Dict's keys get_keys | keys1 = dict1.keys() loop_on_keys | for key in dict1.keys(): Dict's values get_values | values1 = dict1.values() loop_on_values | for value in dict1.values(): Dict's pairs / items get_pairs | items1 = dict1.items() USEFUL: 🝨 loop_on_pairs | for key, value in dict1.items(): 🍨 example | for album, songs_list in LinkinPark.items(): convert_dict_to_list_of_pairs | pairs_list = list(dict1.items) **Dictionary_Operations** 1 # Define a dict tel = {'Sagi': 4098, 'Amit': 4139} # Create / add an item tel['Ilay'] = 4127 # Get value of a kev tel['Sagi'] # Output: 4098 10 # Delete an item 11 del tel['Amit'] # opt1 12 tel.pop('Amit') # opt2 13 14 # View the dictionary's keys 15 list(tel) # Output: ['Sagi', 'Amit', 'Ilay'] 16 17 # View the dictionary's keys, sorted 18 sorted(tel) # Output: ['Amit', 'Ilay', 'Sagi'] 19 20 # Check if a key exists in the dict