**ASSIGNMENT-1 Data Types**

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**Please implement by using Python.**

1. Construct 2 lists containing all the available data types (integer, float, string, complex and Boolean) and do the following..
   1. Create another list by concatenating above 2 lists
   2. Find the frequency of each element in the concatenated list.
   3. Print the list in reverse order.

Ans:- *list1 = [52,4.3,True,5+3j,"metro",12,34.55]*

*list2 = [12,34.55,False,4+8j,"train",True]*

*list3 = list1 + list2*

*print(list3)*

*rev\_list3 = list3[::-1]*

*#empty dictionary*

*frequency = {}*

*# iterating over the list*

*for item in list3:*

*# checking the element in dictionary*

*if item in frequency:*

*# incrementing the counr*

*frequency[item] += 1*

*else:*

*# initializing the count*

*frequency[item] = 1*

*# printing the frequency*

*print(frequency)*

1. Create 2 Sets containing integers (numbers from 1 to 10 in one set and 5 to 15 in other set)
   1. Find the common elements in above 2 Sets.
   2. Find the elements that are not common.
   3. Remove element 7 from both the Sets.

Ans:-

*set1 = {1, 2, 4, 6, 7, 8, 9}*

*set2 = {6, 7, 8, 9, 11, 12, 13, 14}*

*#common*

*intersection = set1.intersection(set2)*

*intersection\_as\_list = list(intersection)*

*print(intersection\_as\_list)*

*#not common*

*print((set1-set2).union(set2-set1))*

*#remove 7*

*set1.remove(7)*

*set2.remove(7)*

*print(set1)*

*print(set2)*

1. Create a data dictionary of 5 states having state name as key and number of covid-19 cases as values.
   1. Print only state names from the dictionary.
   2. Update another country and it’s covid-19 cases in the dictionary.

Ans:-

*dic = {"Kerala":'6025669','Karnataka':'3809467','Tamil Nadu':'3345220','Andhra Pradesh':'2276370','Jammu and Kashmir':'435425'}*

*#print keys only*

*dic.keys()*

*#adding a new entry*

*dic['USA'] =967501*

*print(dic)*