1. **Given a Python list you should be able to display Python list in the following order**

aLsit = [100, 200, 300, 400, 500]

Expected output: [500, 400, 300, 200, 100]

1. **Concatenate two lists index-wise ( Hint : use zip function and for loop)**

list1 = ["M", "na", "i", "Ke"]

list2 = ["y", "me", "s", "lly"]

Expected output: ['My', 'name', 'is', 'Kelly']

1. **Given a Python list. Turn every item of a list into its square ( Hint : use [x \* x for x in aList])**

aList = [1, 2, 3, 4, 5, 6, 7]

Expected output: [1, 4, 9, 16, 25, 36, 49]

1. **Given a two Python list. Iterate both lists simultaneously such that list1 should display item in original order and list2 in reverse order**

list1 = [10, 20, 30, 40]

list2 = [100, 200, 300, 400]

Expected output:

10 400

20 300

30 200

40 100

1. **Remove empty strings from the list of strings ( Hint : use filter() function)**

list1 = ["Mike", "", "Emma", "Kelly", "", "Brad"]

Expected output: ["Mike", "Emma", "Kelly", "Brad"]

1. **Given a Python list, find value 20 in the list, and if it is present, replace it with 200. Only update the first occurrence of a value ( Hint : use index() function in list)**

list1 = [5, 10, 15, 20, 25, 50, 20]

Expected output:list1 = [5, 10, 15, 200, 25, 50, 20]

1. **Given a Python list, remove all occurrence of 20 from the list**

list1 = [5, 20, 15, 20, 25, 50, 20] Expected output: [5, 15, 25, 50]

1. **Below are the two lists convert it into the dictionary**

keys = ['Ten', 'Twenty', 'Thirty']

values = [10, 20, 30] ( hint : use zip)

Expected output: {'Ten': 10, 'Twenty': 20, 'Thirty': 30}

1. **Merge following two Python dictionaries into one**

dict1 = {'Ten': 10, 'Twenty': 20, 'Thirty': 30}

dict2 = {'Thirty': 30, 'Fourty': 40, 'Fifty': 50}

Expected output: {'Ten': 10, 'Twenty': 20, 'Thirty': 30, 'Fourty': 40, 'Fifty': 50}

1. **Access the value of key ‘history’**

sampleDict = { "class":{ "student":{ "name":"Mike", "marks":{ "physics":70, "history":80 } } } }

Expected output: 80

1. **Check if a value 200 exists in a dictionary ( Hint use ‘in ‘ operator)**

sampleDict = {'a': 100, 'b': 200, 'c': 300} Expected output: True

1. Get the key corresponding to the minimum value from the following dictionary

sampleDict = { 'Physics': 82,'Math': 65, 'history': 75}

Expected output: Math

1. **Add a list of elements to a given set**

sampleSet = {"Yellow", "Orange", "Black"}

sampleList = ["Blue", "Green", "Red"]

Expected output: {'Green', 'Yellow', 'Black', 'Orange', 'Red', 'Blue'}

1. **Return a set of identical items from a given two Python set**

set1 = {10, 20, 30, 40, 50}

set2 = {30, 40, 50, 60, 70} Expected output: {40, 50, 30}

1. **Remove 10, 20, 30 elements from a following set at once**

set1 = {10, 20, 30, 40, 50} Expected output: {40, 50}

1. **Reverse the following tuple**

aTuple = (10, 20, 30, 40, 50) Expected output: (50, 40, 30, 20, 10)