Python Questionnaire - Practice

**Tutorial 2**

Q1 Iterate through the given dictionary using for loop and print all keys

NewDict = {'Name': 'Bella', 'Roll No.': 34512, 'Institution Code': 1012, 'Remarks':'Pass'}

Q2. Solve the following to get output as 3.

D = {1 : 1, 2 : '2', '1' : 1, '2' : 3}

D['1'] = **?**

print(D[D[D[str(D[1])]]])

Q3. Replace the pass keyword with right expression to get the required o/p?

D = dict()

for i in range (3):

for j in range(2):

**pass**

print(D)

O/P: {0: 1, 1: 1, 2: 1}

Q4. Write a function to check if a given year passed as an argument is leap year or not. Return the result as True or False

Take care of the following constraints

The year that can be evenly divided by 4 is a leap year

But, According to the gregorian Calendar,

the years 2000 and 2400 are leap years (multiples of 100),

but 1800, 1900, 2100, 2200, 2300 and 2500 are NOT leap years

(not multiples of 400).

Q5. Write a function that Prints sum of all list items. For example, [4,5,-3] should return 6.

Q6. Write a function that Prints product of all list items. For example, [4,5,-3] should return -60.

Q7. Write a function that Prints unique items from the list. For example, [4,5,3,6,12,2,5,3,] should return -. [4,5,3,6,12,2]

Q8. Print two lists - Unique and Duplicates. *Unique* should contain only unique items from some\_list. And *Duplicates* should contain only duplicate lis items from some\_list.

**some\_list = ['B','R','E','A','D','B','U','T','T','E','R']**

Q9. Use string slicing to print - 1. *act . 2. tcarahc*

str = 'character'

Q10. Print the following output using List Comprehensions?

[7, 21, 35, 49, 63, 77, 91]

Q11. Print the following using set comprehensions for given list?

List\_Org = [1,1,2,3]

Output: {1, 4, 9}

Q12. Print the following output using dictionary comprehensions given list?

dict={1:1,2:2,3:3}

O/P: {1: 3, 4: 4, 9: 5}

Q13. Solve the following to get output as E.

D = {1 : {'A' : {1 : "A"}, 2 : "B"}, 3 :"C", 'B' : "D", **?**:'E'}

print(D[D[D[1][2]]], end = " ")

Q14. Correct the mistakes to print the required o/p?

D = {1 : [1, 2, 3], 2: (4, 6, 8)}

D[1].append(4)

print(D[1], end = " ")

L = list(**?**)

L.append(10)

D[2] = ***pass***

print(D[2])

O/P: [1, 2, 3, 4] (4, 6, 8, 10)