

Assignment -5

(Strange Coder)

1. Given a list of numbers, write a python program that returns a new list which Has all duplicate elements removed. And is sorted in an increasing order.

Ex:

Input:

[2,1,3,4,2,3,3,2,7,9,8,7]

Output:

[1,2,3,4,7,8,9]

2. Write a Python program where you will iterate over both keys and values in dictionaries
3. Write a Python program that takes a dictionary of student names and returns a list of student names in alphabetical order

Ex:

Input:

{"Student 1": "Tarun", "Student 2": "Manoj", "Student 3": "Gephi"}

Output:

["Gephi",
Manoj", " Tarun"]

4. Write a Python which returns a new list of Booleans, from a given number. Iterating through the number one digit at a time, append True if the digit is 1 and False if it is 0.

Ex:

Input: "01001"

Output: ["False", "True", "False", " False", " True"]

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5. Write a Python program where you will return a dictionary where the keys will be the character and the values will be the occurrence of the character in the string, and it should for any string inputs (dynamic)

Ex:

Input: "my name is ame"

Output: {"m":3, "y":1, "n":1, "a":2, "e":2, "i":1, "s":1}

6. Given a dictionary containing the names and ages of a group of people, return the name of the oldest person

Ex:

Input: {"Tmma": 41, "Ackes": 45, "myna": 15, "Benthon": 29}

Output: "Ackes"

7. Write a Python program to create a Rock, Paper, Scissor game, use two inputs for two players:

Conditions: -Rock beats Scissors, Scissors beats Paper, Paper beats Rock

8. Create a program that returns a list of items that you can afford in the store with the money you have in your wallet. Create a dictionary with items as key and price as values

Ex:

Input:

{"water bottles": "20", "chips":10, "Iphone":49000, "towel":90, "pens":58, "cake":400}

Your wallet balance: -50

Output: ["water bottles", "chips"]

9. Write a Python program to create a union of sets

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10. Write a Python program to check if a given value is present in a set or not (Dynamic)

11. Write a Python program to find the occurrences of 3 most common words in a given text. And make it as a dictionaries

Ex:

Input:

" Cat dog dog cat horse dog dog mouse horse dog mouse tiger lion tiger cat mouse snail"

Output: ("dog":5,"cat":3," mouse";3)

12. Write a Python program that accepts name of given subject and mark, and make subjects as keys in dictionaries and marks as values and print the final dictionary with subjects and marks

***** Try to create a dynamic programs**