M1.3.f: Assignments

Assignments

1. Write a program to find the transpose of a matrix.

2. Write a program that accepts sequence of lines as input and prints the lines after making all characters in the sentence capitalized.

3. Write a program to implement all built-in methods of list.

4. Write a program to read dictionary values through keyboard and merge two dictionaries.

5.Write a program to demonstrate all built-in methods of dictionary.

6. Write a program to find the sum of all the elements in a list.

7. With a given integral number n, write a program to generate a dictionary that contains(i,i*i) such that i is an integral number between 1 and n. And then the program should print the dictionary.

8. Write a program that accepts a sentence and calculate the number of letters & digits

9. Write a program to implement filter(), map() and reduce() .

10. Write a program to implement List Comprehension .

11. Write a program to implement Dictionary Comprehension ..

12. Write a program to find the largest and smallest element from a list.

13. Write a Python program to print the numbers of a specified list after removing even numbers from it.

14. Write a Python program to generate and print a list of first and last 5 elements where the values are square of numbers between 1 and 30

15. Write a Python program to insert a given string at the beginning of all items in a list.

16. Write a Python program to iterate over two lists simultaneously.

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17. Write a Python program to add a key to a dictionary.

18. Write a Python script to concatenate following dictionaries to create a new one.

   Sample Dictionary :
         dic1={1:10, 2:20}
         dic2={3:30, 4:40}
         dic3={5:50,6:60}

19. Write a Python program to iterate over dictionaries using for loops.

20. Write a Python program to sum all the items in a dictionary.

21. Create a dictionary to hold information about pets. Each key is an animal's name, and each value is the kind of animal.Eg : {'Dog':'Willie'}

- **Put at least 3 key-value pairs in your dictionary.**
- **Use a for loop to print out a series of statements such as "Willie is a dog."**

22. Write a python function to create and return a new dictionary from the given dictionary (subject: mark).

Create a new dictionary with subject having marks more than 50.

marks = {English: 40,'Maths': 60, 'Hindi: 30,'Chemistry': 46,'Physics': 70}

23. Write a python function which accepts a sentence and finds the number of letters and digits in the sentence.

It should return a dictionary in which the key should be letter count and value should be digit count. Ignore the spaces or any other special character in the sentence.

24. Write a Python function which generates and returns a dictionary where the keys are numbers between 1 and n (both inclusive) and the values are square of keys.

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