Basics

1. Prints numbers from 0 to 4 (up to 5 but not including 5)

2. Prints numbers from 0 to 4 (number starts from zero if start index is omitted)

3. Prints every alternate numbers starting zero

4. Prints number from 10 to 1

5. Prints number from 10 to 0

6. Prints alternate numbers from 10 to 0.

7. Prints Python is awesome!! 5 times

8. Print numbers from -10 to -1

9. Print numbers from 10 to -1

10. Print even numbers up to 50

11. Print odd numbers up to 50

12. Find the sum of first 10 even numbers

Strings

13. Iterating over string using range function.

    s = "hello world"

14. iterating over a string in reversed direction

15. Printing Index and Character using range function

16. Iterating over multiple string objects using zip function

17. Printing alternate characters of the string

18. Program to count the number of digits and alphabets in the string "hai 1234 python23"

19. Program to count the number of capital and small letters in the string "HelLo WORld"

Lists

20. Prints the item and its corresponding index in the list

21. Printing alternate items of the list

22. Iterating over multiple lists simultaneously

23. Iterating through multiple list with un-equal lengths using zip function

24. Program to print filenames ending with pdf.

    files = ['youtube.txt', 'amazon.pdf', 'facebook.pdf', 'google.pdf', 'apple.doc']

25. Print the extension of each file name in the list

files = ['youtube.txt', 'yahoo.pdf', 'microsoft.doc', 'apple.xls', 'amazon.xml']

26. Program to print the length of each word in the list

27. Program to print the length of each word in the list in the form of tuples

Dictionary

28. Print only key's of the dictionarPrint only key's of the dictionaryy

29. Print Values of the dictionary

30. Print index and item of the dictionary

31. Count number of words in a sentence using get method

    sentence = 'hello world hello world welcome to python'

32. Counting number of characters in a string

    s = 'abracadabraca'

33. Counting number of vowels in a string

34. Counting occurances of word in the string

    sentence = "hello world welcome to python hello hi hello hello"

35. Counting occurances of each character in the string

    s = 'abracadabraca'

36. Create a dictionary for the below list

    cities = [('India', 'Bangalore'),

    ('India', 'Chennai'),

    ('India', 'Delhi'),

    ('India', 'Kolkata'),

    ('USA', 'Dallas'),

    ('USA', 'New York'),

    ('USA', 'Chicago'),

    ('China', 'Beijing'),

    ('China', 'Shainghai')

    ]

Additional questions

37. Adding items of two lists corresponding to their indices

    a = [1, 2, 3, 4]

    b = [5, 6, 7, 8]

38. flattening the list using Multiple for loops in comprehension

   items = [[1, 2, 3], [4, 5, 6], [7, 8, 9]]

39. Python Program for n-th Fibonacci number

40. Python Program for Sum of squares of first n natural numbers

41. Python Program for cube sum of first n natural numbers