Module - 2

1. What is a list? Explain the concept of list slicing and list traversing with example.
2. Explain the concept of comparing tuples. Describe the working of sort function with python code.
3. Write a python program to search for lines that start with 'F' followed by 2 characters, followed by 'm:'.
4. What is dictionary? How is it different from list? Write a python program to count a. occurrence of characters in a string and print the count.
5. With an example program, illustrate how to pass function arguments to list.
6. Write a python program to search lines that start with 'X' followed by any non whitespace characters, followed by ':' ending with number. Display the sum of all these number.
7. Describe any two list operations and list methods. Write a python program to accept 'n' numbers from user. Find sum all even numbers and product of all odd numbers in entered list.
8. List merits of dictonary over list. Write a python program to accept USN and marks obtained. Find maximum, minimum and students USN who have scored in the range 100-85, 85-75, 75-60 and below 60 marks separately.
9. Compare and contrast tuples with lists. Explain the following operations in tuples

   1. sum of two tuples
   2. slicing operators
   3. compression of two tuples
   4. assignments to variables

10. What is Dictionary in Python? How is it different from List data type? Explain how a forloop can be used to traverse the keys of the Dictionary with an example.
11. Write a Python program that accepts a sentence and find the number of words, digits, uppercase letters and lowercase letters.
12. What is the difference between copy.copy( ) and copy.deepcopy( ) functions applicable to a List or Dictionary in Python? Give suitable examples for each.
13. Discuss the following Dictionary methods in Python with examples.
    (i) get( )   (ii) items( )   (iii) keys( )   (iv) values( )
14. Explain the various string methods for the following operations with examples.
    (i) Removing whitespace characters from the beginning, end or both sides of a string.
    (ii) To right-justify, left-justify, and center a string.
15. What is the difference between lists and tuples?
16. Explain Magic 8 Ball with a List.
17. Demonstrate A Tic-Tac-Toe Board using dictionary.
18. Demonstrate project Adding Bullets to wiki Markup.
19. Illustrate string , write a python program to concatenate and compare two strings. Read the strings from user.
20. Explain string? Explain String manipulation methods.