Assignment 6 [List and Tuple]

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

2. Write a program to find the maximum and minimum element of a list.

3. Write a program to find the position of maximum and minimum element's position in a list.

4. Write a program to print all the element in a list that are greater than a given value.

5. Write a program to print all the common elements of 2 list.

6. Write a program to reverse a list.

7. Write a program to find the second largest and second smallest value from a list.

8. Write a program to find the average of all elements in a list.

9. Write a program to to generate random numbers within a given range and store it in a list.

10. Write a program to split the even and odd elements into 2 different lists.

11. Write a Python program to create a tuple

12. Write a Python program to create a tuple with different data types.

13. Write a Python program to unpack a tuple in several variables.

14. Write a Python program to add an item in a tuple.

15. Write a Python program to convert a tuple to a string.

16. Write a Python program to get the 4th element and 4th element from last of a tuple.

17. Write a Python program to find the repeated items of a tuple.

18. Write a Python program to check whether an element exists within a tuple.

19. Write a Python program to slice a tuple.

20. Write a Python program to find the index of an item of a tuple.

21. Write a Python program to find the length of a tuple.

22. Write a Python program to convert a tuple to a dictionary.

23. Write a Python program to unzip a list of tuples into individual lists.

24. Write a Python program to reverse a tuple.

25. Write a Python program to convert a list of tuples into a dictionary.

26. Write a Python program to print a tuple with string formatting.

    Sample tuple : (100, 200, 300)

    Output : This is a tuple (100, 200, 300)

27. Write a Python program to replace last value of tuples in a list.

    Sample list: [(10, 20, 40), (40, 50, 60), (70, 80, 90)]

    Expected Output: [(10, 20, 100), (40, 50, 100), (70, 80, 100)]

28. Write a Python program to replace last value of tuples in a list.

    Sample data: [(), (), ('',), ('a', 'b'), ('a', 'b', 'c'), ('d')]

    Expected output: [('',), ('a', 'b'), ('a', 'b', 'c'), 'd']

29. Write a Python program to sort a tuple by its float element.

    Sample data: [('item1', '12.20'), ('item2', '15.10'), ('item3', '24.5')]

    Expected Output: [('item3', '24.5'), ('item2', '15.10'), ('item1', '12.20')]

30. Write a Python program to count the elements in a list until an element is a tuple.