

### **Programs for practice**

1. Write a Python program to create a tuple.
2. Write a Python program to create a tuple with different data types.
3. Write a Python program to create a tuple with numbers and print one item.
4. Write a Python program to unpack a tuple in several variables.
5. Write a Python program to add an item in a tuple.
6. Write a Python program to convert a tuple to a string.
7. Write a Python program to get the 4th element and 4th element from last of a tuple.
8. Write a Python program to create the colon of a tuple.
9. Write a Python program to find the repeated items of a tuple.
10. Write a Python program to check whether an element exists within a tuple.
11. Write a Python program to convert a list to a tuple.
12. Write a Python program to remove an item from a tuple.
13. Write a Python program to slice a tuple.
14. Write a Python program to find the index of an item of a tuple.
15. Write a Python program to find the length of a tuple.
16. Write a Python program to convert a tuple to a dictionary.
17. Write a Python program to unzip a list of tuples into individual lists.
18. Write a Python program to reverse a tuple.
19. Write a Python program to convert a list of tuples into a dictionary.
20. Write a Python program to print a tuple with string formatting.  
Sample tuple : (100, 200, 300)  
Output : This is a tuple (100, 200, 300)

21. 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)]

22. Write a Python program to remove an empty tuple(s) from a list of tuples.

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

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

23. 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')]

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