

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
 - a. count the occurrences of elements in tuple.
 - b. find the occurrence of any element in tuple.
9. Write a Python program to check whether an element exists within a tuple.
10. Write a Python program to convert a list to a tuple.
11. Write a Python program to remove an item from a tuple.
12. Write a Python program to count the elements in a list until an element is 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')]

25. Write a Python program convert a given string list to a tuple.

Original string: python 3.0

<class 'str'>

Convert the said string to a tuple:

```
('p', 'y', 't', 'h', 'o', 'n', '3', '.', '0')
```

```
<class 'tuple'>
```

26. Write a Python program calculate the product, multiplying all the numbers of a given tuple.

Original Tuple:

```
(4, 3, 2, 2, -1, 18)
```

Product - multiplying all the numbers of the said tuple: -864

Original Tuple:

```
(2, 4, 8, 8, 3, 2, 9)
```

Product - multiplying all the numbers of the said tuple: 27648

27. Write a Python program to calculate the average value of the numbers in a given tuple of tuples.

Original Tuple:

```
((10, 10, 10, 12), (30, 45, 56, 45), (81, 80, 39, 32), (1, 2, 3, 4))
```

Average value of the numbers of the said tuple of tuples:

```
[30.5, 34.25, 27.0, 23.25]
```

Original Tuple:

```
((1, 1, -5), (30, -15, 56), (81, -60, -39), (-10, 2, 3))
```

Average value of the numbers of the said tuple of tuples:

```
[25.5, -18.0, 3.75]
```

28. Write a Python program to convert a tuple of string values to a tuple of integer values.

Original tuple values:

```
(('333', '33'), ('1416', '55'))
```

New tuple values:

```
((333, 33), (1416, 55))
```

29. Write a Python program to convert a given tuple of positive integers into an integer.

Original tuple:

(1, 2, 3)

Convert the said tuple of positive integers into an integer:

123

Original tuple:

(10, 20, 40, 5, 70)

Convert the said tuple of positive integers into an integer:

102040570

30. Write a Python program to check if a specified element presents in a tuple of tuples.

Original list:

((('Red', 'White', 'Blue'), ('Green', 'Pink', 'Purple'), ('Orange', 'Yellow', 'Lime'))

Check if White presenet in said tuple of tuples!

True

Check if White presenet in said tuple of tuples!

True

Check if Olive presenet in said tuple of tuples!

False

31. Write a Python program to compute element-wise sum of given tuples.

Original lists:

(1, 2, 3, 4)

(3, 5, 2, 1)

(2, 2, 3, 1)

Element-wise sum of the said tuples:

(6, 9, 8, 6)

32. Write a Python program to compute the sum of all the elements of each tuple stored inside a list of tuples.

Original list of tuples:

[(1, 2), (2, 3), (3, 4)]

Sum of all the elements of each tuple stored inside the said list of tuples:

[3, 5, 7]

Original list of tuples:

[(1, 2, 6), (2, 3, -6), (3, 4), (2, 2, 2, 2)]

Sum of all the elements of each tuple stored inside the said list of tuples:

[9, -1, 7, 8]

33. Write a Python program to convert a given list of tuples to a list of lists.

Original list of tuples: [(1, 2), (2, 3), (3, 4)]

Convert the said list of tuples to a list of lists: [[1, 2], [2, 3], [3, 4]]

Original list of tuples: [(1, 2), (2, 3, 5), (3, 4), (2, 3, 4, 2)]

Convert the said list of tuples to a list of lists: [[1, 2], [2, 3, 5], [3, 4], [2, 3, 4, 2]]