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| **Tuple** |

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* **Introduction** : Tuples are used to store multiple items in a single variable. A tuple is a collection which is ordered and unchangeable.[1]

[1]References : <https://www.w3schools.com/python/python_tuples.asp>

* **Creating a Tuple** :[2]

A tuple can be written as the collection of comma-separated (,) values enclosed with the small () brackets. The parentheses are optional but it is good practice to use. A tuple can be defined as follows.

1. T1 = (101, "Peter", 22)
2. T2 = ("Apple", "Banana", "Orange")
3. T3 = 10,20,30,40,50
5. print(type(T1))
6. print(type(T2))
7. print(type(T3))

output

<class 'tuple'>

<class 'tuple'>

<class 'tuple'>

[2]References : <https://www.javatpoint.com/python-tuples>

**Python Tuples :**

Problem :[3]

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| mytuple = ("apple", "banana", "cherry") | |
| Tuple | thistuple = ("apple", "banana", "cherry") print(thistuple)   * output: ('apple', 'banana', 'cherry') |
| Python - Access Tuple Items | thistuple = ("apple", "banana", "cherry") print(thistuple[1])   * output : banana |
| Python - Update Tuples | x = ("apple", "banana", "cherry")  y = list(x)  y[1] = "kiwi"  x = tuple(y)  print(x)   * output: ("apple", "kiwi", "cherry") |
| Python - Unpack Tuples | fruits = ("apple", "banana", "cherry")  print(fruits)   * output : ('apple', 'banana', 'cherry') |
| Python - Loop Tuples | thistuple = ("apple", "banana", "cherry")  for x in thistuple:  print(x)   * output : apple   banana  cherry |
| Python - Join Tuples | tuple1 = ("a", "b" , "c")  tuple2 = (1, 2, 3)  tuple3 = tuple1 + tuple2  print(tuple3)   * output : ('a', 'b', 'c', 1, 2, 3) |
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* References : [3] <https://www.w3schools.com>
* **Python - Tuple Methods :** [4]

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| **Method** | **Description** |
| count() | Returns the number of times a specified value occurs in a tuple |
| index() | Searches the tuple for a specified value and returns the position of where it was found |

* References [4] <https://www.w3schools.com>