What's Going On Here?

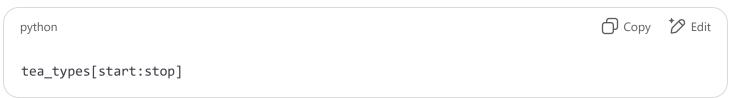
python	С Сору	* Edit
<pre>tea_types = ("Black", "Green", "Oolong")</pre>		

This is a **tuple** — an **ordered** and **immutable** collection in Python.

Accessing Elements (Indexing)

Code	Output	Explanation
tea_types[0]	'Black'	First element
tea_types[1]	'Green'	Second element
tea_types[-1]	'Oolong'	Last element (from the end)
tea_types[-2]	'Green'	Second-last element

Slicing Tuples

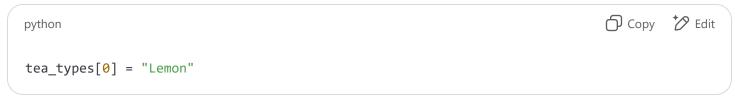


This includes start, but excludes stop.

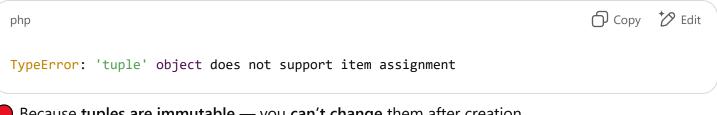
Code	Output	Explanation
tea_types[1:]	('Green', 'Oolong')	From index 1 to end
tea_types[1:3]	('Green', 'Oolong')	From index 1 up to (not including)
tea_types[1:2]	('Green',)	Only index 1 (still returns a tuple)

Code	Output	Explanation
tea_types[0:2]	('Black', 'Green')	From index 0 up to (not including) 2

X Trying to Change a Tuple



This causes:



Because **tuples** are immutable — you can't change them after creation.

How to Change It (Workaround)

If you want to change an item, convert it to a list first:

```
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tea_list = list(tea_types) tea_list[0] = "Lemon" tea_types = tuple(tea_list)
print(tea_types)
```

Output:

```
Copy Bdit
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('Lemon', 'Green', 'Oolong')
```

Other Useful Tip

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python		Сору	* Edit
<pre>len(tea_types)</pre>			
his gives the length :			
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3			

♦ Summary

Concept	Example	Result / Note
Access item	tea_types[1]	'Green'
Slice items	tea_types[1:]	('Green', 'Oolong')
Tuple immutable	<pre>tea_types[0] = "Lemon"</pre>	X Error (TypeError)
Convert to list	list(tea_types)	Allows modification
Convert back	<pre>tuple(tea_list)</pre>	Back to tuple