

Count items in the dictionary

python

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```
print(len(chai_types))
```

- Shows how many types of chai are in the dictionary.
- Output: 3 (Masala, Ginger, Green)

✓ 2. Add a new chai type

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```
chai_types["Earl Grey"] = "Citrus"
```

- Adds "Earl Grey" with the flavor "Citrus" to the dictionary.
- New dictionary:

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```
{'Masala': 'Spicy', 'Ginger': 'Zesty', 'Green': 'Fresh', 'Earl Grey': 'Citrus'}
```

✓ 3. Remove a chai type using pop()

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```
chai_types.pop("Ginger")
```

- Removes the key "Ginger" and returns its value ('Zesty').
- Dictionary now:

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```
{'Masala': 'Spicy', 'Green': 'Fresh', 'Earl Grey': 'Citrus'}
```

✓ 4. Remove the last added item using `popitem()`

```
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```
chai_types.popitem()
```

- Removes the **last** item added ("Earl Grey": "Citrus").
- Dictionary now:

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```
{'Masala': 'Spicy', 'Green': 'Fresh'}
```

✓ 5. Delete an item using `del`

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```
del chai_types["Green"]
```

- Deletes the "Green" chai.
- Dictionary now:

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```
{'Masala': 'Spicy'}
```

✓ 6. Make a copy of the dictionary

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```
chai_types_copy = chai_types.copy()
```

- Creates a **copy** of the dictionary.
- Now both `chai_types` and `chai_types_copy` have:

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```
{'Masala': 'Spicy'}
```

✅ 7. Add a new chai to the original dictionary

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```
chai_types["Black"] = "Mild"
```

- Adds a new chai to **only** `chai_types` , not to the copy.
- Now:
 - `chai_types` → {'Masala': 'Spicy', 'Black': 'Mild'}
 - `chai_types_copy` → {'Masala': 'Spicy'} (unchanged)

Summary Table

Operation	What it does
<code>dict[key] = value</code>	Add or update an item
<code>pop(key)</code>	Remove and return item by key
<code>popitem()</code>	Remove and return the last item
<code>del dict[key]</code>	Delete an item by key
<code>dict.copy()</code>	Make a separate copy

Operation**What it does**

`len(dict)`

Get number of items in the dictionary