# Code Analysis & Explanation

ython	Сору	<b>*</b> ⊘ Ed	
for chai in chai_types: <a href="mailto:print">print</a> (chai, chai_types[chai])			
This prints each key and its corresponding value.			
Output:			
mathematica	Сору	⁺⊘ Ec	
Masala Spicy			
Ginger Zesty			
Green Fresh			
oop to Print Only Keys			
thon	<b>П</b> Сору	* Ec	
or chai in chai_types: print(chai)	<b>П</b> Сору	*⊘ Ec	
Just prints the keys:	<b>О</b> Сору	<b>*</b> ⊘ Ec	
Just prints the keys:  mathematica	<b>О</b> Сору	<b>*</b> ⊘ Ec	
Just prints the keys:  mathematica  Masala	<b>П</b> Сору	† <b>⊘</b> Ec	
or chai in chai_types: print(chai)  Just prints the keys:  mathematica  Masala Ginger	<b>О</b> Сору	<b>*</b> ⊘ Ec	
Just prints the keys:  mathematica  Masala Ginger Green	<b>П</b> Сору	<b>*</b> ⊘ Ec	
or chai in chai_types: print(chai)  Just prints the keys:  mathematica  Masala Ginger	Сору		
Just prints the keys:  mathematica  Masala Ginger Green  pop to Print Both Keys and Values (More Pythonic)			

- .items() returns key-value pairs.
- Output:

mathematica

Masala Spicy
Ginger Zesty
Green Fresh

#### 4. Check if a Key Exists

python	О Сору	* Edit
<pre>if "Masala" in chai_types: print("I have masala chai")</pre>		

- Checks if "Masala" is one of the keys.
- Output:

```
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```

#### 5. Print Dictionary

• Displays the entire dictionary:

```
python

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

### 6. Get Number of Items in Dictionary

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

- len() returns the number of key-value pairs.
- Output:

3

## 7. Add a New Key-Value Pair

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

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

- Adds a new entry to the dictionary.
- Now chai\_types becomes:

```
python

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

## Summary of New Concepts

Operation	Description
for key in dict:	Loop through keys
<pre>for key, value in dict.items()</pre>	Loop through keys and values
if key in dict	Check if a key exists
len(dict)	Get number of key-value pairs
<pre>dict["new_key"] = value</pre>	Add or update a key-value pair