Dictionary Creation

```python
chai_types = {"Masala": "Spicy", "Ginger": "Zesty", "Green": "Mild"}
```

- A dictionary called `chai_types` is created.
- It maps types of chai (tea) to their flavors:
  - `"Masala"` → `"Spicy"`
  - `"Ginger"` → `"Zesty"`
  - `"Green"` → `"Mild"`

2. Viewing the Dictionary

```python
chai_types
```

- This displays the contents of the dictionary:

  ```python
  {'Masala': 'Spicy', 'Ginger': 'Zesty', 'Green': 'Mild'}
  ```

3. Accessing a Value Using a Key

```python
chai_types["Masala"]
```

- Accesses the value associated with the key `"Masala"` which is `"Spicy"`.

4. Using `.get()` to Access a Value

```python
chai_types.get("Green")
```

- `.get()` safely retrieves the value for `"Green"`, which is `"Mild"`.

5. Accessing a Nonexistent Key with `.get()`

```python
chai_types.get("Greeney")
```

- Returns `None` because `"Greeney"` is not a key in the dictionary.
- `.get()` is safer than direct access (e.g., `chai_types["Greeney"]`) because it doesn't raise an error if the key is missing.

6. Accessing a Nonexistent Key Directly

```python
chai_types["Masalaaa"]
```

- This raises a `KeyError` because `"Masalaaa"` does not exist in the dictionary.

  ```vbnet
  KeyError: 'Masalaaa'
  ```

7. Modifying a Dictionary Value

```python
python
```

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```python
chai_types["Green"] = "Fresh"
```

- Changes the value for the key `"Green"` from `"Mild"` to `"Fresh"`.

8. Viewing the Updated Dictionary

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```python
chai_types
```

- Now it shows:

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

9. Looping Through Dictionary Keys

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```python
for chai in chai_types: print(chai)
```

- Loops through the keys of the dictionary and prints each one:

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```mathematica
Masala
Ginger
Green
```

10. Looping Through Keys and Values

```python
for chai in chai_types: print(chai, chai_types[chai])
```
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- Prints each key along with its corresponding value:

```mathematica
Masala Spicy
Ginger Zesty
Green Fresh
```
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Summary

You learned how to:

- Create and print dictionaries.
- Access and modify dictionary values.
- Use `.get()` for safe lookups.
- Handle missing keys.
- Loop through dictionaries.