



# Dictionary

# Loop



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# Introduction

- In Python, you can loop through a dictionary to access its **keys, values, or both (key-value pairs)**.
- This is especially useful when you want to process or **display all elements** of a dictionary.

# Looping Through Keys

- By default, looping over a dictionary using a **for loop** will iterate through its **keys**.

<u>Python</u>	<u>Output</u>
<pre>person = {"name": "Riya", "age": 25, "city": "Pune"}  for key in person:     print(key)     print(person[key])</pre>	<pre>Name Riya Age 25 City Pune</pre>

# Looping Through Keys

- By default, looping over a dictionary using a **for loop** will iterate through its **keys**.
- You can also use **.keys()** explicitly.

<u>Python</u>	<u>Output</u>
<pre>person = {"name": "Riya", "age": 25, "city": "Pune"}  for key in person.keys():     print(key)</pre>	<pre>Name Riya Age</pre>

# Looping Through Values

- To loop only through the **values**, use the **.values()** method
- This is useful when you're only interested in the **data** and not in the keys.

<u>Python</u>	<u>Output</u>
<pre>person = {"name": "Riya", "age": 25, "city": "Pune"}  for value in person.values():     print(value)</pre>	<pre>Riya 25 Pune</pre>

# Looping Through Key-Value Pairs

- To access **both keys and values** at once, use the **.items()** method:
- This is the **most powerful** form of **dictionary iteration** and is commonly used in **data processing tasks**.

<u>Python</u>	<u>Output</u>
<pre>person = {"name": "Riya", "age": 25, "city": "Pune"}  for key, value in person.items():     print(f"{key} → {value}")</pre>	<pre>name → Riya age → 25 city → Pune</pre>

# Looping Using enumerate()

- Though not very common for dictionaries, you can use **enumerate()** with **.items()** to also get the index.

<u>Python</u>	<u>Output</u>
<pre>person = {"name": "Riya", "age": 25, "city": "Pune"}  for index, (key, value) in enumerate(person.items()):     print(f"{index}: {key} = {value}")</pre>	<pre>0: name = Riya 1: age = 25 2: city = Pune</pre>



# Looping Using Dictionary Comprehension

- **Dictionary comprehension** is used when you need to **transform** or **filter data** efficiently using minimal code.

## Python

```
person = {"name": "Riya", "age": 25, "city": "Pune"}  
  
comp = {k: v for k, v in person.items() if type(v) is str}  
print(comp)
```

## Output

```
{'name': 'Riya', 'city': 'Pune'}
```

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**Nested Dictionary**

