

“चला तर,  python  
शिकू आपल्या भाषेत!”



# Marathi Coding Shala

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👉 जर तू **AI Engineer, Data Scientist, Web Developer** किंवा **Hacker** व्हायचं ठरवलं असेल —

तर Python हा पहिला आणि सर्वात महत्वाचा step आहे  



## Set in Python



### 1. What is a Set?



Set म्हणजे unordered, unindexed, unique elements चा collection.



म्हणजेच set मध्ये duplicate values allowed नसतात.



### Important points:

- Elements unique असतात
- Order fixed नसतो
- Index नसतो (list प्रमाणे `set[0]` वापरता येत नाही)
- Mutable (data बदलू शकतो)
- Elements must be immutable (numbers, strings, tuples allowed — but list/dict not allowed)

## ★ 2. Creating a Set

```
myset = {1, 2, 3, 4}  
print(myset)
```

Duplicate automatically remove होतात:

```
s = {1, 2, 2, 3, 3}  
print(s)
```

```
{1, 2, 3}
```

Empty set तयार करताना {} वापरू नका

```
s = {}    # This creates an empty dictionary
```

```
s = set()
```

### ★ 3. Adding Elements

➤ add()

```
s = {1, 2, 3}  
s.add(4)  
print(s)
```

➤ update() (Multiple items add)

```
s.update([5, 6, 7])  
print(s)
```



## 4. Removing Elements

### ► **remove()**

Key not found असल्यास error

```
s.remove(2)
```

### ► **discard()**

Key नसली तरी error नाही

```
s.discard(10)
```



► **pop()**

Random element remove करतो

**s.pop()**

► **clear()**

**s.clear()**

## ★ 5. Set Operations (Math Operations)

Python set हे **mathematical set operations** ला support करतात.

### 1. Union (| or union())

दोन्ही set मधले सर्व unique elements

```
A = {1, 2, 3}
B = {3, 4, 5}
print(A | B)      # OR
print(A.union(B))
```

## 2. Intersection (& or intersection())

दोन्हीत common असलेले

```
print(A & B)  
print(A.intersection(B))
```

## 3. Difference (- or difference())

फक्त A मधले, B मध्ये नसलेले

```
print(A - B)  
print(A.difference(B))
```

#### 4. Symmetric Difference (^ or symmetric\_difference())

A किंवा B मधले पण दोन्हीत नसलेले

```
print(A ^ B)  
print(A.symmetric_difference(B))
```

## ★ 6. Check Membership (`in`)

```
s = {10, 20, 30}  
print(20 in s) # True  
print(40 in s) # False
```

## ★ 7. Iterate Over Set

```
for item in s:  
    print(item)
```

## 8. Useful Set Methods

Method	Description
<code>add()</code>	Add element
<code>update()</code>	Add multiple elements
<code>remove()</code>	Remove element (error if not found)
<code>discard()</code>	Remove element (no error)
<code>pop()</code>	Remove random element
<code>clear()</code>	Empty set
<code>union()</code>	Combine sets
<code>intersection()</code>	Common items
<code>difference()</code>	Only A not B
<code>symmetric_difference()</code>	Uncommon items
<code>copy()</code>	Copy set



## Real-Life Example of Set

Example 1: Remove Duplicates from List

```
numbers = [1, 2, 3, 2, 1, 4]  
unique = set(numbers)  
print(unique)
```



## Example 2: Common Students in Two Classes

```
classA = {"Rahul", "Sneha", "Amit"}  
classB = {"Amit", "Neha", "Sneha"}  
  
print(classA & classB) # Intersection
```

### Example 3: Find Unique Characters in a String

```
name = "programming"  
print(set(name))
```



## Practice Questions (with Answers)

**Q1: Create a set and add 5 numbers using update().**

```
s = set()
s.update([10, 20, 30, 40, 50])
print(s)
```

Q2: Remove item safely using discard().

```
s = {1, 2, 3}  
s.discard(5)  
print(s)
```

Q3: Find union of two sets.

```
A = {1, 2, 3}  
B = {3, 4, 5}  
print(A.union(B))
```

Q4: Remove duplicates from a list using set.

```
lst = [1, 2, 2, 3, 3, 4]  
print(set(lst))
```

Q5: Check if a value exists in set.

```
s = {100, 200, 300}  
print(200 in s)
```

## Python Collections

Feature	List	Tuple	Set	Dictionary
Definition	Ordered collection of items	Ordered & immutable collection	Unordered collection of unique items	Collection of key-value pairs
Syntax	[ ]	( )	{ }	{ key: value }
Order Maintained?	✓ Yes	✓ Yes	✗ No	✓ Yes (Python 3.7+)
Mutable?	✓ Yes	✗ No	✓ Yes	✓ Yes
Duplicate Allowed?	✓ Yes	✓ Yes	✗ No	✗ Keys no, values yes
Indexing/ Slicing	✓ Supported	✓ Supported	✗ Not supported	✓ Keys accessed using indexes (indirect)
Use Case	Changing data frequently	Fixed data, secure data	Unique values, membership test	Mapping real-world data (key-value)
Performance	Slower than tuple	Fastest (immutable)	Very fast membership checking	Fast lookup using keys
Example	[10, 20, 30]	(10, 20, 30)	{10, 20, 30}	{'a': 10, 'b': 20}
Methods	append, insert, pop, remove	count, index	add, remove, discard	keys, values, items, update

- **List:** Ordered + Mutable + Duplicates allowed
- **Tuple:** Ordered + Immutable + Duplicates allowed
- **Set:** Unordered + Mutable + Unique items
- **Dictionary:** Ordered + Mutable + Key-Value pairs + Keys unique





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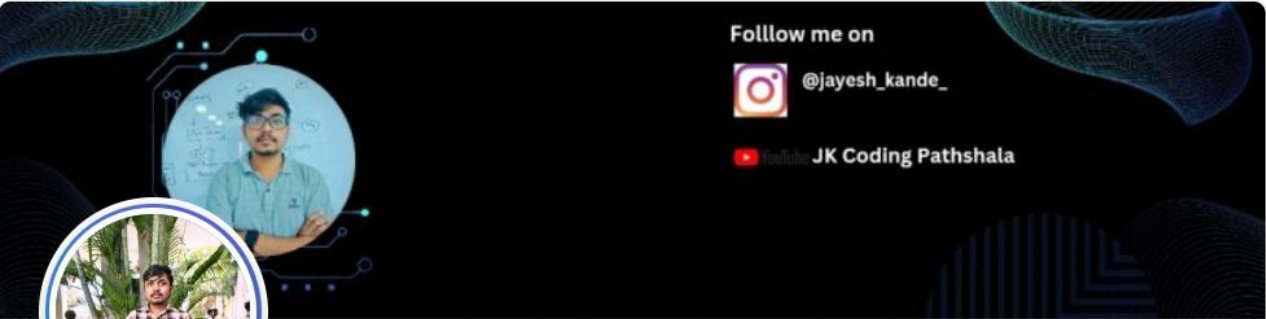
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