

“चला तर,  python  
शिकू आपल्या भाषेत!”

# Marathi Coding Shala



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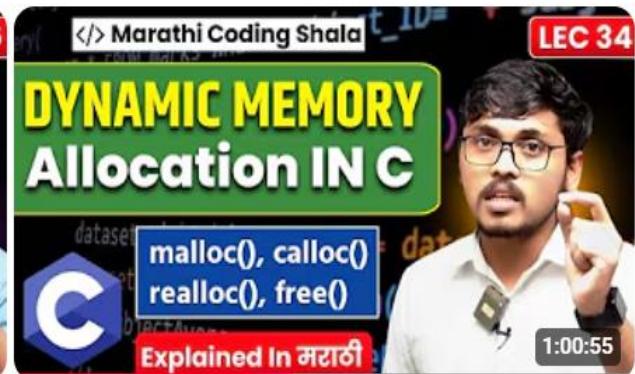
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👉 जर तू AI Engineer, Data Scientist, Web Developer किंवा Hacker व्हायचं ठरवलं असेल —

तर Python हा पहिला आणि सर्वात महत्वाचा step आहे 💻 🔥



## Day 09 – Tuple in Python

- ❖ **What is a Tuple? (Tuple म्हणजे काय?)**

👉 Tuple म्हणजे एक data structure जिथे आपण एकापेक्षा जास्त values एकत्र ठेवू शकतो, पण त्या values नंतर बदलू शकत नाही (**immutable**).

- 📘 **Definition:**

A tuple is an ordered and immutable collection of elements that allows duplicate values.

- ◆ **Syntax of Tuple**

Python मध्ये Tuple तयार करण्यासाठी **round brackets ()** वापरतात.

```
numbers = (10, 20, 30, 40)
fruits = ("apple", "banana", "mango")
mixed = (10, "hello", 3.5, True)
```

## ◆ Difference Between List and Tuple

Feature	List	Tuple
Brackets	[]	()
Mutable	 Yes (Changeable)	 No (Immutable)
Methods	Many (append, remove...)	Few (count, index)
Performance	Slower	Faster
Use case	When data changes	When data fixed

## ◆ Creating a Tuple

```
tuple1 = (1, 2, 3, 4)
tuple2 = ("a", "b", "c")
tuple3 = (10, "hello", 3.14)
print(tuple1)
print(tuple2)
print(tuple3)
```

## ◆ Single Element Tuple

⚠️ एकच element असलेला tuple बनवायचा असेल तर comma (,) लावणं आवश्यक आहे.

```
a = (5)    # ✗ This is not a tuple
b = (5,)   # ✓ This is a tuple
print(type(a)) # <class 'int'>
print(type(b)) # <class 'tuple'>
```

- ◆ **Accessing Tuple Elements (Indexing)**

Tuple मध्ये ही indexing 0 पासून सुरु होते.

```
fruits = ("apple", "banana", "mango")
print(fruits[0]) # apple
print(fruits[1]) # banana
print(fruits[-1]) # mango
```

## ◆ Tuple Slicing

Tuple slicing list सारखंच असतं.

```
numbers = (10, 20, 30, 40, 50)
print(numbers[1:4])  # (20, 30, 40)
print(numbers[:3])   # (10, 20, 30)
print(numbers[2:])   # (30, 40, 50)
```

- ◆ **Immutability of Tuple**

Tuple मधील elements बदलता येत नाहीत.

```
fruits = ("apple", "banana", "mango")
# fruits[1] = "grapes" ✘ Error
```

TypeError: 'tuple' object does not support item assignment

## ◆ Looping Through Tuple

Tuple वर for loop वापरता येतो.

```
fruits = ("apple", "banana", "mango")
for x in fruits:
    print(x)
```

apple  
banana  
mango

## ◆ Tuple Methods

Tuple immutable असल्यामुळे methods कमी आहेत. फक्त दोन मुख्य methods वापरतात 

1 count() → एखादी value किती वेळा आली आहे ते सांगते

```
numbers = (10, 20, 10, 30, 10)
print(numbers.count(10))
```

② **index()** → दिलेल्या element चा index (position) सांगते

```
fruits = ("apple", "banana", "mango", "banana")
print(fruits.index("banana"))
```

1

- ◆ **Nested Tuple (Tuple inside Tuple)**

```
data = ((1, 2), (3, 4), (5, 6))
print(data[0])    # (1, 2)
print(data[1][1]) # 4
```

## ◆ Tuple Concatenation & Repetition

Tuple जोडता येतात आणि multiply करून repeat करता येतात.

```
a = (1, 2, 3)
b = (4, 5)
print(a + b)    # (1, 2, 3, 4, 5)
print(a * 2)    # (1, 2, 3, 1, 2, 3)
```

## ◆ Tuple Unpacking

Tuple मधील values वेगवेगळ्या variables मध्ये assign करता येतात.

```
fruits = ("apple", "banana", "mango")
(a, b, c) = fruits
print(a)
print(b)
print(c)
```

apple  
banana  
mango



## Practice Questions

- 1** Create a tuple of 5 numbers and print all
- 2** Access 2nd and last element of tuple
- 3** Find the count of any repeated number
- 4** Find index of “banana” in a tuple
- 5** Combine two tuples into one
- 6** Create nested tuple and print inner element
- 7** Try to modify an element – observe the error

L-10Practice Questions on List in Python

L-11Practice Questions on tuple in Python



A circular profile picture of a man with glasses and a mustache, wearing a dark shirt. The circle has a double border, one orange and one pink.

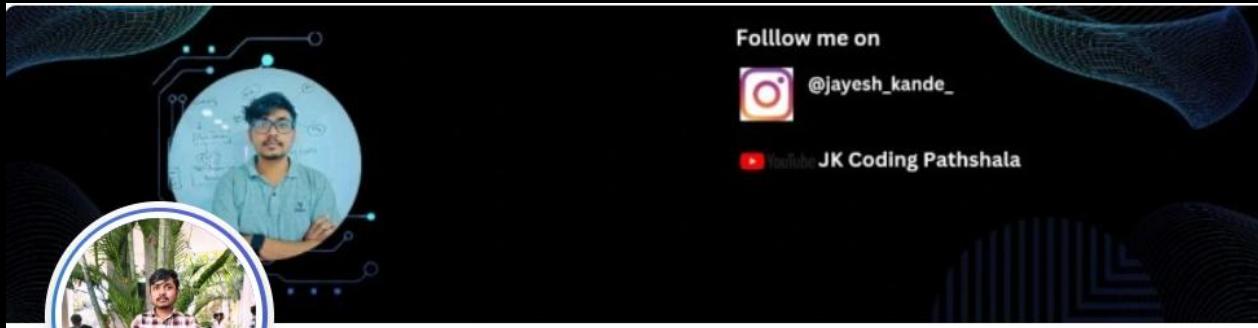
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