"चला तर, python शिकू आपल्या भाषेत!"

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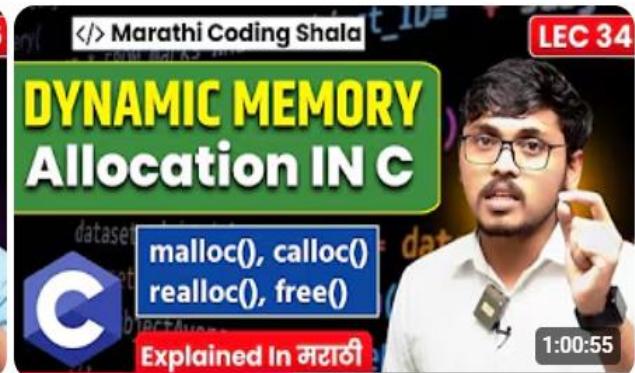
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42:06

L26 | LCM आणि HCF Program in C (Marathi) | Marathi Coding Shala

40:53

L-34 Dynamic Memory Allocation in C मराठीत | malloc() calloc() realloc() free()

1:00:55

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

तर Python हा पहिला आणि सर्वात महत्त्वाचा step आहे 💻 🔥

🔷 **1. Input म्हणजे काय?**

👉 **Input** म्हणजे — User कडून Data घेण्याची प्रक्रिया.

Python मध्ये Input घेण्यासाठी आपण `input()` function वापरतो.

📌 **Syntax:**

```
variable_name = input("Message to the user: ")
```

◆ 2. Basic Example:

```
name = input("तुझं नाव लिहा: ")
print("नमस्कार", name)
```

तुझं नाव लिहा: Jayesh
नमस्कार Jayesh

➡️ `input()` function user कडून value घेतो आणि ती **string (text)** स्वरूपात store करतो.

🔹 **3. input() ने घेतलेला Data कोणत्या Type मध्ये असतो?**
👉 Python मधील `input()` function ने घेतलेला प्रत्येक डेटा हा **string (str)** स्वरूपात असतो.

```
x = input("Enter a number: ")
print(x)
print(type(x))
```

```
Enter a number: 10
10
<class 'str'>
```

📌 लक्षात ठेवा — 10 हे दिसायला number आहे, पण ते string type मध्ये आहे.

◆ 4. Numeric Input (Type Conversion सह)

जर आपल्याला user ने दिलेल्या number वर गणितीय क्रिया करायच्या असतील,
तर string ला **integer किंवा float** मध्ये convert करावं लागतं.

```
a = int(input("पहिला नंबर लिहा: "))
b = int(input("दुसरा नंबर लिहा: "))

print("बेरीज =", a + b)
```

```
पहिला नंबर लिहा: 5
दुसरा नंबर लिहा: 10
बेरीज = 15
```

```
x = float(input("Enter first value: "))
y = float(input("Enter second value: "))

print("Sum =", x + y)
```

```
Enter first value: 2.5
Enter second value: 3.5
Sum = 6.0
```

◆ **5. Multiple Inputs एका Line मध्ये घेणे (Split वापरून)**
कधी कधी आपल्याला एका line मध्ये एकापेक्षा जास्त values घ्यायच्या असतात.
त्यासाठी `split()` method वापरतो.

```
a, b = input("Enter two numbers: ").split()
print("a =", a)
print("b =", b)
```

```
Enter two numbers: 10 20
a = 10
b = 20
```

◆ 6. Multiple Inputs + Type Conversion

```
a, b = map(int, input("Enter two numbers: ").split())
print("Sum =", a + b)
```

```
Enter two numbers: 10 20
Sum = 30
```

📌 इथे `map(int, ...)` वापरून दोन्ही input values integer मध्ये convert केल्या आहेत.

काम	Function	Example
Input घेणे	input()	x = input("Enter: ")
String Input	default	"Hello"
Integer Input	int()	a = int(input())
Float Input	float()	x = float(input())
Multiple Inputs	split()	a, b = input().split()
Convert + Split	map()	a, b = map(int, input().split())

◆ Program 1: Take user name and print greeting

```python
name = input("Enter your name: ")
print("Hello,", name, "! Welcome to Python ")
```

Program 2: Take two numbers and display their sum

```python
# Program to add two numbers entered by the user

a = int(input("Enter first number: "))
b = int(input("Enter second number: "))

sum = a + b
print("Sum =", sum)
```

◆ Program 3: Take name and age and display information

```python
# Program to take name and age and display them

name = input("Enter your name: ")
age = int(input("Enter your age: "))

print("\n--- Student Information ---")
print("Name:", name)
print("Age:", age)
```

Program 4: Find average of three float numbers

```python
# Program to find average of three float numbers

a = float(input("Enter first number: "))
b = float(input("Enter second number: "))
c = float(input("Enter third number: "))

avg = (a + b + c) / 3
print("Average =", avg)
```

Program 5: Take two numbers in one line and multiply

```python
# Program to take two numbers in a single line and multiply them

a, b = map(int, input("Enter two numbers separated by space: ").split())
product = a * b
print("Product =", product)
```

Program 6: Take name and college name and print a message

```python
# Program to take user's name and college name

name = input("Enter your name: ")
college = input("Enter your college name: ")

print(f"{name} studies at {college}! Bright future ahead ✨")
```

◆ Program 7: Take three numbers in one line, find sum and average

```python
# Program to take 3 numbers in one line, find their sum and average

a, b, c = map(float, input("Enter three numbers separated by space: ").split())

sum = a + b + c
avg = sum / 3

print("Sum =", sum)
print("Average =", avg)
```

Program 8: Convert Celsius to Fahrenheit

```python
# Program to convert Celsius temperature to Fahrenheit

c = float(input("Enter temperature in Celsius: "))
f = (c * 9/5) + 32

print("Temperature in Fahrenheit =", f)
```

Program 9: Simple Calculator Using Input

```python
# Simple Calculator Program

a = float(input("Enter first number: "))
b = float(input("Enter second number: "))

print("\n--- Results ---")
print("Addition =", a + b)
print("Subtraction =", a - b)
print("Multiplication =", a * b)
print("Division =", a / b)
print("Modulus =", a % b)
print("Exponentiation =", a ** b)
print("Floor Division =", a // b)
print("Square of first number =", a ** 2)
print("Square of second number =", b ** 2)
print("Cube of first number =", a ** 3)
print("Cube of second number =", b ** 3)
print("Square root of first number =", a ** 0.5)
print("Square root of second number =", b ** 0.5)
print("Cube root of first number =", a ** (1/3))
print("Cube root of second number =", b ** (1/3))
```
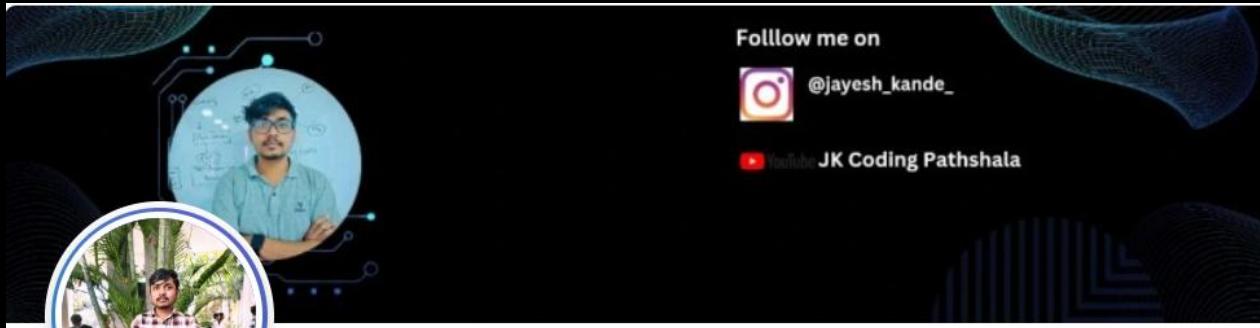
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