

“चला तर,  python  
शिकू आपल्या भाषेत!”

# Marathi Coding Shala



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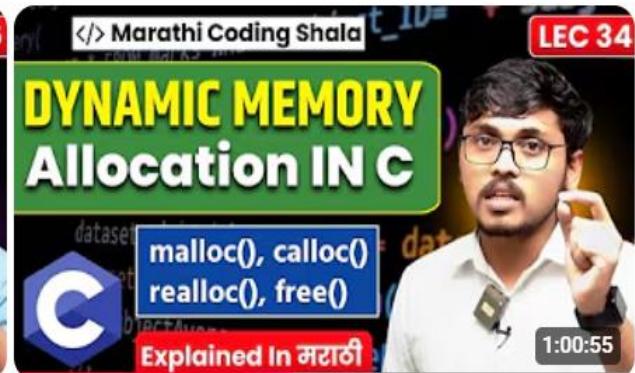
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👉 जर तू AI Engineer, Data Scientist, Web Developer किंवा Hacker व्हायचं ठरवलं असेल —

तर Python हा पहिला आणि सर्वात महत्वाचा step आहे 💻 🔥



## 1 What are Conditional Statements?

👉 Conditional statements are used when we want the program to **make a decision** based on a condition.

If the condition is **True**, one block of code runs;

If **False**, another (or no) block runs.



*They control the flow of execution depending on the given condition.*



## 2 The if Statement

### ◆ Syntax:

```
if condition:  
    statement(s)
```



If the **condition** is **True**, then the code inside the **if** block executes.

**X** If the condition is False, it **skips** the block.

- ◆ Example 1: Simple If

```
num = 10

if num > 0:
    print("Positive number")

print("This statement always runs")
```

Positive number  
This statement always runs

## ◆ Example 2: Checking Even Number

```
num = int(input("Enter a number: "))

if num % 2 == 0:
    print("Even Number")

print("End of program")
```

Even Number  
End of program



### 3 The if-else Statement

👉 Used when we have **two possibilities** –  
If the condition is **True**, one block executes;  
Otherwise, the **else** block executes.

```
if condition:  
    statements_if_true  
else:  
    statements_if_false
```

- ◆ Example 1: Positive or Negative Number

```
num = int(input("Enter a number: "))

if num >= 0:
    print("Positive number")
else:
    print("Negative number")
```

- ◆ Example 2: Even or Odd

```
num = int(input("Enter a number: "))

if num % 2 == 0:
    print("Even")
else:
    print("Odd")
```

- ◆ Example 3: Check Age for Voting

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

if age >= 18:
    print("You are eligible to vote.")
else:
    print("You are not eligible to vote yet.")
```



## 4 The if-elif-else Statement

👉 Used when you have **multiple conditions** (more than two choices).  
Python checks each `if` and `elif` one by one —  
Once a True condition is found, the remaining are skipped.

```
if condition1:  
    block1  
elif condition2:  
    block2  
elif condition3:  
    block3  
else:  
    blockN
```

## ◆ Example 1: Grading System

```
marks = int(input("Enter your marks: "))

if marks >= 90:
    print("Grade: A+")
elif marks >= 75:
    print("Grade: A")
elif marks >= 60:
    print("Grade: B")
elif marks >= 40:
    print("Grade: C")
else:
    print("Fail")
```

## ◆ Example 2: Largest of Three Numbers

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

if a >= b and a >= c:
    print("A is the largest:", a)
elif b >= a and b >= c:
    print("B is the largest:", b)
else:
    print("C is the largest:", c)
```

### ◆ Example 3: Temperature Classification

```
temp = int(input("Enter temperature: "))

if temp > 35:
    print("It's too hot ")
elif temp >= 25:
    print("Normal Weather ")
elif temp >= 15:
    print("Cool ")
else:
    print("Cold ")
```



## 5 Important Notes

- 1 Indentation (spacing) is **very important** in Python.  
→ 4 spaces (or a tab) after `if`, `elif`, or `else` is mandatory.
- 2 You can **nest** if-else statements inside each other.
- 3 Conditions can combine using `and`, `or`, `not`.

## ◆ Example (Nested If)

```
num = int(input("Enter a number: "))

if num > 0:
    if num % 2 == 0:
        print("Positive Even Number")
    else:
        print("Positive Odd Number")
else:
    print("Negative Number")
```

## **6 Practice Questions**

- 1** Write a program to check whether a number is positive, negative, or zero.
- 2** Write a program to check whether a year is a leap year or not.
- 3** Accept marks and display grade using if-elif-else.
- 4** Input three numbers and print the largest one.
- 5** Check if a number is divisible by both 3 and 5.



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.

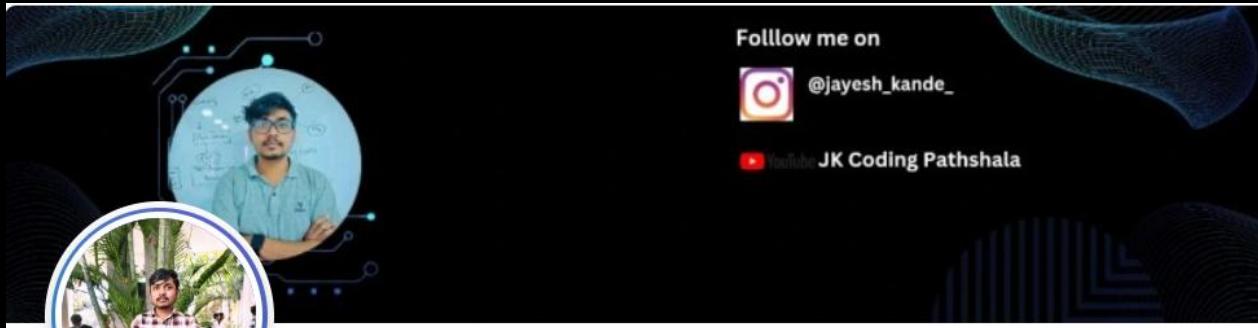
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