

Introduced in Python 3.10.
Provides a powerful mechanism for pattern matching.
Enables more expressive and readable conditional checks.
Replaces traditional if-elif-else chains for complex conditions.

Syntax of Match Case Statement

match subject:

case pattern1:

 # Code if pattern1 matches

case pattern2:

 # Code if pattern2 matches

case _:

 # Default case if no pattern matches



Example: Basic Match Case

- `def check_number(x):`
- `match x:`
- `case 10:`
- `print("It's 10")`
- `case 20:`
- `print("It's 20")`
- `case _:`
- `print("It's neither 10 nor 20")`



Photo: a few men looking at a computer screen

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Match Case with OR Operator

- Combines multiple patterns using the OR operator.
- Example:
- `def num_check(x):`
- `match x:`
- `case 10 | 20 | 30:`
- `print(f"Matched: {x}")`
- `case _:`
- `print("No match found")`



Match Case with Python If Condition

- Adds additional conditions for more granular control.
- Example:
- `def num_check(x):`
- `match x:`
- `case 10 if x % 2 == 0:`
- `print("Matched 10 and it's even!")`
- `case _:`
- `print("No match found")`

