

## Day 7



### Match Case Statements in Python:

#### What is match-case?

match-case is a conditional statement used to compare one value with many possible values. It is similar to switch-case in other languages (like C, Java).

#### Why use match-case?

- Makes code clean and readable
- Avoids writing many if-elif-else
- Best when checking one variable against many values

#### Basic Syntax

*match variable:*

*case value1:*

*# code*

*case value2:*

*# code*

*case \_:*

*# default case*

\_ works like else (default)

Example: a basic example

```
1  x = int(input("Enter a number: "))
2  match x:
3      case 0:
4          print("Zero")
5      case 1:
6          print("One")
```

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```
PS E:\Python\Day1-10\Day7> python main.py
Enter a number: 1
One
```

Example: “\_” is used as default.

```
9  day = "Monday"
10
11  match day:
12      case "Monday":
13          print("Start of week")
14      case "Friday":
15          print("End of week")
16      case _:
17          print("Normal day")
```

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● PS E:\Python\Day1-10\Day7> python main.py  
Start of week

Example:

```
9  day = "V"
10
11  match day:
12      case "Monday":
13          print("Start of week")
14      case "Friday":
15          print("End of week")
16      case _:
17          print("Normal day")
```

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● PS E:\Python\Day1-10\Day7> python main.py  
Normal day

Summary,

- match-case is used to match one value with many cases
- Works like switch-case
- Introduced in Python 3.10
- \_ is the default case
- Supports:
  - Numbers
  - Strings
  - Multiple values
  - Conditions (guards)
  - Makes code cleaner than many if-elif

--The End--