

# 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

The screenshot shows a terminal window with the following content:

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

Below the code, there is a navigation bar with tabs: PROBLEMS, OUTPUT, DEBUG CONSOLE, TERMINAL (which is underlined), and PORTS. Under the TERMINAL tab, the output is displayed:

```
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")
--
```

PROBLEMS    OUTPUT    DEBUG CONSOLE    **TERMINAL**    PORTS

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

Example:

```
9     day = "Y"
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")
--
```

PROBLEMS    OUTPUT    DEBUG CONSOLE    **TERMINAL**    PORTS

● 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