The difference between:

* **\_\_doc\_\_ attribute**
* **help() function**

Both are used to access documentation in Python, but they work differently.

**. \_\_doc\_\_ (Docstring Attribute)**

* It's an **attribute** of a function, class, method, or module.
* Returns the **raw docstring** (i.e., whatever is written between """ """).
* It's just a string. You can print or manipulate it like any other string.
* No formatting or additional info.

**Example:**

def greet(name):

"""Returns a greeting message."""

return f"Hello, {name}"

print(greet.\_\_doc\_\_)

**Output:**

Returns a greeting message.

**help() Function**

* It’s a **built-in function** that provides a **formatted help text**.
* It uses the **\_\_doc\_\_** internally but also includes the **function signature**, type, and more (when available).
* Ideal for interactive help (especially in terminal or Python shell).
* Displays more complete and structured info.

**Example:**

help(greet)

**Output:**

Help on function greet in module \_\_main\_\_:

greet(name)

Returns a greeting message.

**Use Cases:**

* Use **\_\_doc\_\_** when you just want the raw docstring (e.g., for logging, introspection).

[ **Introspection** means **examining or inspecting** the **type or properties of an object at runtime** — that is, while the program is running.]

* Use **help()** when you want interactive, human-readable documentation.