

✓ 1. `dir(module)` – See All Contents of a Package

```
python
CopyEdit
import math
print(dir(math))      # Lists all functions and constants in math
```

📌 Works for *any* package:

```
python
CopyEdit
import os
print(dir(os))        # Shows all functions and submodules in os
```

✓ 2. `help(module)` – See Full Documentation (Offline)

```
python
CopyEdit
import os
help(os)              # Detailed offline help about os package
```

Includes: description, functions, constants, and more.

✓ 3. `type(object)` – Know What Something Is

```
python
CopyEdit
import math
type(math.pi)         # <class 'float'>
type(math)            # <class 'module'>
```

✓ 4. `from package import *` – Try Things Quickly

```
python
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from math import *
print(sqrt(25))
```

Now you don't have to type `math.sqrt(25)`

✓ 5. `__doc__` – Quick One-Line Help

```
python
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print(math.sqrt.__doc__)  # Shows docstring for sqrt function
```

✓ 6. Use `inspect` module (built-in)

```
python
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import inspect
import math

print(inspect.getmembers(math))  # Lists all members in math
```

Also works for custom classes and external packages (if installed).

✓ 7. Use `help("modules")` to See All Installed Modules

```
python
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help("modules")  # Lists all installed packages/modules
```

✓ 3. Built-in `help()` for Errors

You can explore exception types:

```
python
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help(ZeroDivisionError)
help(TypeError)
```

✓ 8. Use `__doc__` to Know What a Function Does

```
python
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print(len.__doc__)
print(int.__doc__)
```

✓ 9. Explore All Built-in Exceptions

```
python
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import builtins
print(dir(builtins))
```

You'll see exceptions like `TypeError`, `ValueError`, etc.