sys Module in Python

The **sys** module in Python is a built-in module that provides access to system-specific parameters and functions. It allows interaction with the Python interpreter and provides tools for system-level operations like command-line arguments, exiting programs, and input/output control.

Importing sys Module

To use sys module:

```
import sys
```

Common Uses of sys Module

1. Command-line Arguments

Access command-line arguments using **sys.argv**.

```
print(sys.argv)
```

2. Exit the Program

Use **sys.exit()** to stop program execution.

```
sys.exit()
```

3. Check Python Version

```
print(sys.version)
```

4. Get System Path

```
print(sys.path)
```

5. Get the Platform

```
print(sys.platform)
```

6. Standard Input/Output

```
sys.stdout.write('Hello')
sys.stdin.readline()
```

7. Recursion Limit

```
sys.getrecursionlimit()
```

8. Interpreter Information

```
sys.executable
sys.byteorder
sys.maxsize
```

Summary Table

Function / Variable	Description

sys.argv	Command-line arguments
sys.exit()	Exit from the program
sys.path	List of module search paths
sys.platform	Name of the OS platform
sys.version	Python version info
sys.stdin / sys.stdout / sys.stderr	Input, Output, and Error streams
sys.getrecursionlimit()	Get recursion depth
sys.setrecursionlimit(n)	Set recursion depth
sys.executable	Path of the Python interpreter
sys.maxsize	Maximum integer size supported