






Why is logging used in Python? (Simple Explanation)

Logging is used to **record** what your program is doing — especially **important events, errors,** and **debug info** — **while it's running**.

Think of it like:

 Keeping a **diary or notebook** of what your program is doing step by step.

Benefits of Logging:

Feature	Why it helps
 Tracks behavior	Shows what happened and when.
 Helps debugging	Easier to find out where and why things went wrong.
 Saves to file	You can review it later, even after the program ends.
 Monitors systems	Great for big apps or servers — keeps a log of errors/performance.

Example:

```
import logging
```

```
logging.basicConfig(level=logging.INFO)
```

```
logging.info("Program started")
```

 Output:

```
INFO:root:Program started
```

Real-World Use:

- When a **website crashes**, logs help find out why.
 - In banking apps, logs track **suspicious transactions**.
 - For AI models, logs show **training progress** and **issues**.
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If you're new: think of `print()` for users, but logging for **developers** and **future debugging**.