<u>How-To IT TechKiBaat Technology</u>

SheBang line....

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Nishma N J

Most of you probably know what this is,

but this post is especially for those who've ever wondered — just like I did!

When I first started playing around with scripts, I saw this strange line at the top:

```
#!/bin/bash
echo "Hello, World!"
```



#!/bin/bash

What is it?

That's called a shebang line, and it plays a powerful role in scripting.

Why is it?

It tells your operating system which interpreter to use to execute your script.

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Examples!!!

- #!/usr/bin/env python3....# For Python 3
- #!/usr/bin/python.....# For Python 2
- #!/bin/bas....# For Bash

• #!/usr/bin/perl.....# For Perl#!/usr/bin/env node # For Node.js

When is it needed?

File Type??? Needs SheBang???

Bash/Python script (executed directly)......Yes

Script run via interpreter explicitly (python script.py).........Optional

Error Conditions!!!

1 If you try to run the script *directly* (e.g., ./script.py, ./myscript.sh) without a shebang:

• The OS doesn't know which interpreter to use.

It defaults to the current shell (usually /bin/sh), which might **not support the syntax** used in your script.

Syntax error: unexpected word (expecting "do")

⚠ If you try to run the script *directly* (e.g., ./script.py, ./myscript.sh) with a shebang but unfortunately a wrong interpreter:

Consider the script runs in Python 3 and is specified to run in Python 2

Syntax error: invalid syntax





Nishma N J

Friendly natured. Born and brought up at "scotland of India" (Coorg) Basically a singer. Also interested in pencil sketches.

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