

TK-Tips: Coding Tips & Tricks – Part 1 (25 Productivity Boosters)



SECTION — 25 Coding Tips

1. Use meaningful variable names — improves readability instantly.
2. Write small functions — each should do only ONE task.
3. Use comments only for complex logic, not obvious code.
4. Prefer constants instead of magic numbers.
5. Always format your code (Prettier, Black, or built-in tools).
6. Break long conditions into multiple lines.
7. Use version control (Git) even for personal projects.
8. Write test cases for important logic.
9. Use logging instead of print statements.
10. Learn keyboard shortcuts for your IDE.
11. Use debugging tools instead of guessing.
12. Follow a consistent coding style (PEP8, Java conventions).
13. Use list/array comprehensions for cleaner loops.
14. Avoid nested loops when possible — reduce time complexity.
15. Cache repeated results to improve performance.

16. Use environment variables for API keys & secrets.
17. Refactor code regularly — small improvements matter.
18. Keep functions under 20–30 lines for readability.
19. Use try/except blocks wisely — avoid silent failures.
20. Use descriptive commit messages in Git.
21. Keep your project folder organized.
22. Read error messages carefully — they usually tell the fix.
23. Don't repeat yourself — follow DRY principle.
24. Use frameworks/libraries instead of reinventing.
25. Learn one new language/framework every year.