Mufaddal Ragib

Personal CCD Cheat Sheet

1. Use meaningful variable and function names

- Choose descriptive names that accurately convey the purpose and meaning.

2. Keep functions and methods small and focused

- Functions should do one thing and they should do it well.
- Functions should have descriptive names.
- Functions with clear responsibilities; More manageable.

3. Comment where necessary

- Always try to explain yourself in code. If it’s not possible, take your time to write a good comment.
- Don’t add obvious noise.
- Comment out code not in-use.
- Use as an explanation of intent.
- Use as a warning of consequences.

4. Write modular and reusable code

- Reusable code should have no side effects.
- Break down complex tasks into smaller clear, concise logic.
- Aim to keep lines of code short and readable by avoiding excessive nesting or complexity.
- Don't repeat yourself.

5. Meaningful whitespace and formatting

- Use consistent indentation and spacing.
- Formatting to improve readability and maintainability.
- Use whitespace to separate logical sections.

6. Handling errors

- Don’t mix error handling and code.
- Write the try-catch-finally statement first, it will help you structure your code
- Use Exceptions instead of returning error codes.
- Don’t return null, don’t pass null either.
- Throw exceptions with context.

7. Test your code

- Test-driven development (TDD) can help you write more reliable code.
- Keep your tests as clean as your production code, they should be easily readable.
- Use a coverage tool.
- Tests should be easy to run.

- One assert per test.

8. Refactor regularly

- Refactor the existing code before adding new functionality in a way so that the change can easily be made.
- Only refactor in small steps with working code in-between so that you can keep track.
- Remove duplication and simplify complex logic.
- Improve naming and organization as needed.

9. Use version control effectively

- Git to manage changes to your codebase effectively.
- Commit small changes with descriptive commit messages.
- Use branches and merge to collaborate with others.