| 21-Mar- 2024 | Day 4 | | Clean Code Practices | **Developing a program**
• Qualities of good programs.
• Trade-offs involved in software development.
• Understanding and applying simple algorithms.
• Introduction to Refactoring.
Essentials of a readable program
• Meaningful names for variables, functions, classes, etc
• Names from problem domain, solution domain
• Formatting: horizontal and vertical
• Explain yourself in code vs comments.
'Clean' Functions
• Writing small functions.
• 'Do one thing' principle.
• One level of abstraction.
• Passing arguments to functions.
• Command query separation.
• Dealing with exceptions.

Handling dependencies & instantiation in clean code
• Separation of construction and use.
• Dependency injection.
• Cross cutting requirements.

Technical Debt and Smells
• Understanding technical debt.
• Addressing technical debt.
• Code smells.
• How to deal with the code smells.
Lab Session: on concepts covered in the session.
Assessment Exam |