Waterfall Model
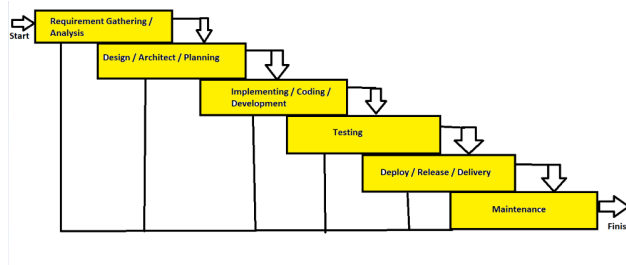
Waterfall Model :

         The Waterfall Model is a traditional and linear software development methodology often used in project management.

• It is one of the earliest models in software development, where the process flows sequentially through distinct phases.

• Each phase must be completed before moving to the next, with little to no overlap or iteration between stages.

Advantages of the Waterfall Model:

- **Clear Structure:** Each phase has defined objectives and deliverables.
- **Simple and Easy to Use:** Ideal for small, straightforward projects.
- **Documentation:** Extensive documentation ensures clarity and continuity.

Disadvantages of the Waterfall Model:

- **Inflexibility:** Difficult to accommodate changes once the process starts.
- **No Iteration:** Does not support revisiting earlier phases.
- **Late Testing:** Errors are identified late in the process, during testing.
- **Not Ideal for Complex Projects:** Unsuitable for dynamic or evolving requirements.
- **Time Consuming**

When to Use the Waterfall Model:

- Projects with well-defined, stable, and unchanging requirements.
- Short and simple projects where the scope is clear from the beginning.
- When strict documentation and process adherence are required.

In order to overcome the these issues or limitations we have next model called Agile Methodology.