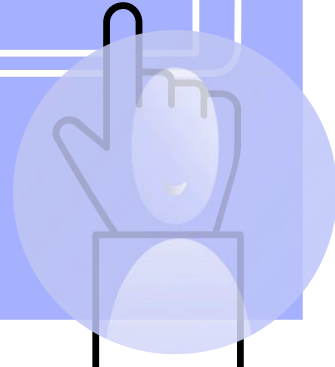
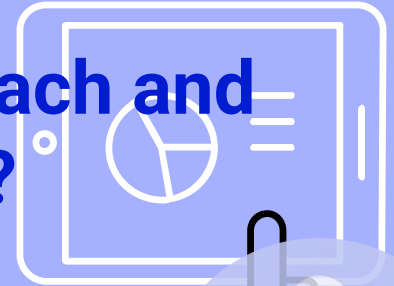
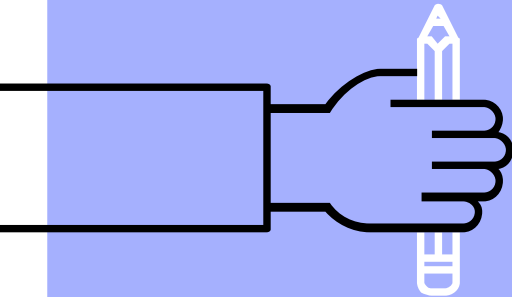
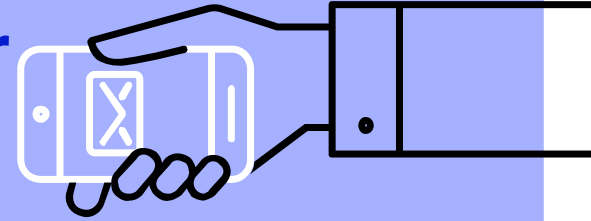
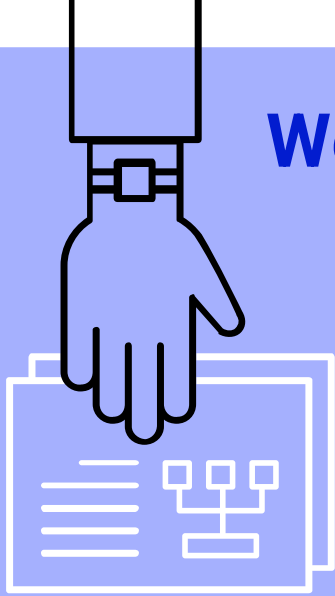


**Welcome to Journey to your
best program
Challenge 0**

Topic

**What's topdown approach and
how to apply it?**



What's topdown approach?

- ▶ Simple terms, a top-down approach is an investment strategy that selects various sectors or industries and tries to achieve a balance in an investment portfolio.
- ▶ The top-down approach analyzes the risk by aggregating the impact of internal operational failures.
- ▶ It measures the variances in the economic variables that are not explained by external macroeconomic factors. As such, this approach is simple and not data-intensive.
- ▶ The top-down approach relies mainly on historical data. This approach is opposite to the bottom-up approach.



When to Use the Top-Down Approach?

- The problem is complex and needs to be broken down into smaller, manageable parts.
- There is a need to understand the big picture before diving into details.
- A clear understanding of the end goal is required before starting the project.
- The solution can be divided into smaller subproblems that can be solved independently.
- The problem has multiple potential solutions, and a top-down approach can help prioritize and evaluate them.



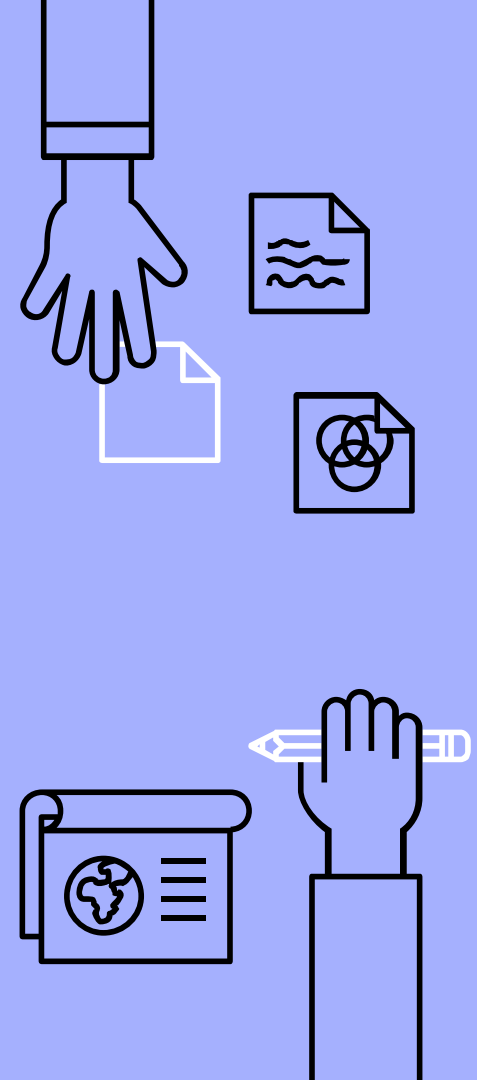
Advantages and Disadvantages topdown approach

Advantages:

- Easy to understand and implement.
- Provides clear objectives and expectations.
- Supports effective allocation of resources.

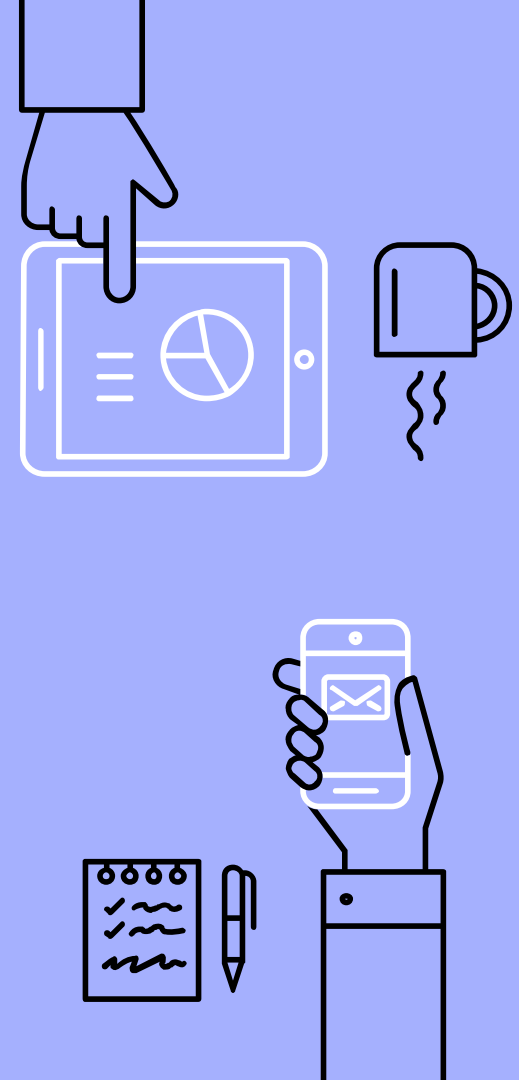
Disadvantages:

- Inflexible to change
- Limited to pre-determined solutions.
- Can lead to missed opportunities or inefficiencies.
- Can result in lower motivation and participation from lower-level employees



When to Use the Top-Down Approach?

- ▶ The top-down approach is best used when:
 - The problem is complex and needs to be broken down into smaller, manageable parts.
 - There is a need to understand the big picture before diving into details.
 - A clear understanding of the end goal is required before starting the project.
 - The solution can be divided into smaller subproblems that can be solved independently.
 - The problem has multiple potential solutions, and a top-down approach can help prioritize and evaluate them.



Apply topdownm appoach

► Defining the necessary steps before implementing a method will give you a clear insight

into the method and help you structure your codes well. Here are what you should do to achieve this:

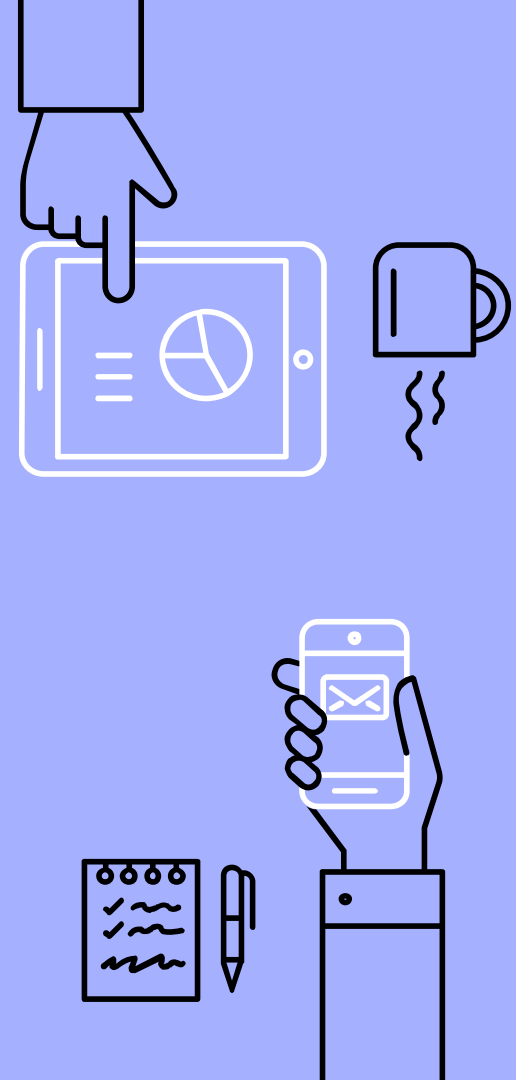
Stage 1: Break down the method's logic into steps using comments, as shown in the example below.

Stage 2: Generate dependent methods, classes, enums, etc., used in stage 1. For now, just generate empty dependent methods or classes and dont bother implementing them during this stage.

Stage 3: Once you have the code skeleton, implement dependent methods one by one and run the unit test.

Company Management Structure: A CEO creates a strategic plan for the company and delegates tasks to department managers, who in turn delegate to their subordinates.

Software Development: A software architect creates a high-level design, which is then divided into smaller tasks for software engineers to implement.



Learning how to learn and learn fast

What's Learning: Learning (also known as studying, learning, or learning) is the process of acquiring new understanding, knowledge, behavior, skills, values, attitudes, and interests. The ability to learn is seen in humans and animals



So learn and learn fast

- ▶ There are many learning methods, for example combining learning and doing a certain programming language, doing exercises around that topic.



Learn and learn fast

- ▶ Learn knowledge from friends and colleagues. When you encounter a topic you don't know, you can open up a conversation because communication is the key to success.



Learn and learn fast

- ▶ When we listen to a topic we already know, keep listening and don't rush to ignore it. Maybe we will learn something we missed.



Learn and learn fast

- ▶ Form the habit of learning when the working environment around us has good people. Learn from their habits and apply them to yourself. Learning from better people helps us easily compensate for shortcomings.
own



Autonomy at work

- ▶ What's autonomy at work: the employee's ability to carry out their duties on their own without needing a great deal of outside help or supervision



Autonomy at work

- ▶ Identify a person who is autonomy at work
 - ▶ They are highly accountable
 - ▶ You trust their judgment
 - ▶ Their track record is Solid
 - ▶ They respect boundaries



Effective when having autonomy at work

- ▷ promote skill development
- ▷ Develop moral qualities in employees
- ▷ Employees feel valued
- ▷ increase work productivity
- ▷ build a culture of trust
- ▷ Encourage creativity and innovation



Reasons to have autonomy at work

- ▶ Proactive position to solve and bring results to the forefront.
- ▶ Always have a backup plan when deploying and taking action; to improve risk reduction and increase the likelihood of success;



How to be autonomy at work

- ▶ Share vision: Department heads clearly share company values; company vision
- ▶ Empowerment: giving employees manager roles
- ▶ Set goals & implementation plans: learn about employees' ideas, understand their inner thoughts and aspirations



What's the smart question how to apply it on your daily basis/work

- ▶ What's the smart question: is to ask questions in a way to exploit and clarify the problem so that they will have enough information to analyze and handle the problem in the most convincing way. That is a smart question.



What would happen if smart questions were applied?

- ▶ Sometimes our questions are so simple that people are not interested in answering or answering them. If we ask questions intelligently, we can quickly get feedback and solve the task more easily.



Elements of smart questioning

- ▶ Intentionally: A good questioner knows that it's all in the preparation. Ask questions with purpose. Choose words with purpose and make sure you ask at the right time. Before you start asking a question, think carefully about why you're asking it.



Apply smart questions to work

- Determine the content and purpose of the question.
- Have a plan for your questions.
- Ask questions based on the level of the relationship
- You need to avoid being pushy and asking too many questions at once.



THANKS!

Any questions?

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