

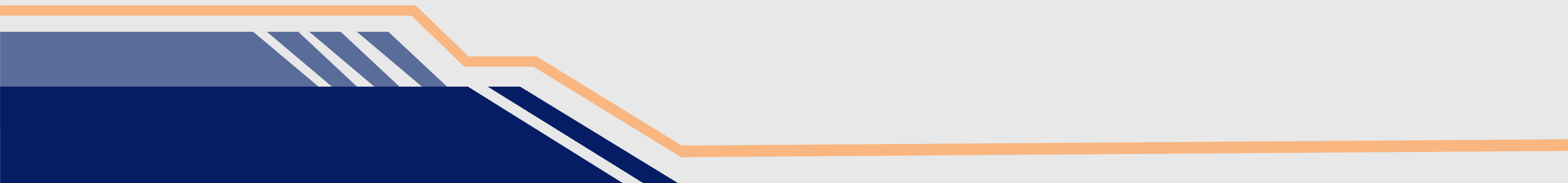
CHALLENGES 0

THIS IS MY CURRENT VERSION.





TOPIC 01: WHAT'S THE TOP-DOWN APPROACH?



WHAT'S A TOP-DOWN APPROACH?

- Approaching from the top-down perspective, the first prerequisite is to examine the entire system fully and then break it down into modules. These modules will then be further subdivided into smaller modules until they can no longer be divided. This process is referred to as '**modularization**'.
- During the modularization process, the integrity and originality of the algorithm need to be maintained. This approach is suitable when designing software from scratch and the specific details are not yet known.
- By employing this approach, when encountering significant issues, they can be divided into various smaller modules since they have been functioning independently after being separated.





HOW THE TOP-DOWN APPROACH WORKS?

- It is essential to identify the main objective or problem. This goal or issue should be clear and its feasibility measurable when applying the method.
- Break it down into sub-modules through the modularization process.
- Address each sub-goal or issue using the modularization process, dividing them until they cannot be further reduced for better manageability.
- Repeat steps 2 and 3 until the overall objective or problem is resolved.

APPLY THE TOP-DOWN APPROACH TO THE ASSIGNMENT

- After researching the top-down approach, for this assignment, it serves as a significant goal that needs to be accomplished. The challenges in this program are the smaller modules of a larger objective, so it is necessary to analyze and begin breaking down these smaller modules into even smaller ones to make them feasible and measurable.
- Regarding this topic, we have divided it into three smaller modules:
 - Apply the top-down approach ---> How it works ---> Learn about the top-down approach.

THANK YOU

