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**Problem Statement – 1: For non Scrum - Agile projects**

Programming standards give your code a more uniform approach and enhance its testability. Keeping your project in mind, attempt the below questions:

· Do you think Defensive Programming is applicable to your project?

o Follow up: is Redundancy not applicable in the case where a single system is executing the program?

=>The defensive programming technique is applicable to our project

· As a developer, should we rely entirely on the user providing correct input?

o In your project, include statements to ensure that the program only continues with data is of the expected type

=>we should not depend on user for the correct input

· While working on your project, the go to approach to debug is using print statements. Could you include these statements to highlight the location and values at the current point in the project?

=>we can use print statements to highlight the location and values of a particular object at different regions of the code but it is not considered as efficient technique

· Could you build two valid and invalid test cases for any two functions in your project?

=>the two valid and invalid testcases for test interface function is as follows:

positive:

If input word is matched with the word given in file

If white spaces used appropriately

Negative:

If wrong words are typed

If the user stops typing in between the timer

**Problem Statement – 3:**

Configuration management helps maintain various versions of the project and eases promotion of new releases. With respect to your project, answer the below questions and explore the mentioned scenarios with git

· Build a table to separate all of your files on the project repository into configuration items

· Each team member should add/modify any of the configuration items on a separate branch

· Assuming your main branch to be the baseline, make further modifications on a different branch to indicate version of the project

· Promote a branch to the baseline by merging



















