**PRACTICAL :2**

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**Agile model :**

# The Agile Model was primarily designed to help a project adapt quickly to change requests. To accomplish this task, agility is required. Agility is achieved by fitting the process to the project and removing activities that may not be essential for a specific project. Also, anything that is a waste of time and effort is avoided.

# It is a combination of iterative and incremental process model.

**Principles of the Agile Model:**

## To establish close contact with the customer during development and to gain a clear understanding of various requirements.

## Each Agile project usually includes a customer representative on the team.

## The agile model relies on working software deployment rather than comprehensive documentation. incorporated.

## The agile development process usually deploys Pair Programming i.e there is a team work which includes interaction of developers and customer for greater yield.

## **Why agile model is more efficient then other model ?**

* **Waterfall model :**
* Agile sees the customer as part of the implementation team and includes them at each part of the process. In contrast, Waterfall tends to spend a lot of time with the customer at the start, trying to document all the perceived requirements. But once this has happened, the implementation team usually take over.
* The main difference is that Waterfall is a linear system of working that requires the team to complete each project phase before moving on to the next one while Agile encourages the team to work simultaneously on different phases of the project.
* Waterfall works best for projects completed in a linear fashion and does not allow going back to a prior phase. Agile focuses on adaptive, simultaneous workflows this is for agile over waterfall model.
* **Spiral Model:**
* The Spiral Model is much more complex and not suitable for small projects as it is expensive but where as Agile model can work on small projects is that they are prone to changes.
* As the number of phases is unknown at the start of the project, time estimation is very difficult and time consuming so multiple evaluations and reviews are required
* **Prototype Model:**
* It is a slow processing methodology and in this system first leads to implementation of system and then to repairing way but whereas in Agile there is proper implementation at each stage.
* This model is iterative and rapid nature managing the prototype process is a difficult task.
* **V Model:**
* Agile provides a high level of flexibility by allowing changes to be incorporated throughout the development process. In contrast, the V Model follows a more sequential approach.
* Agile emphasizes continuous customer involvement and feedback, ensuring that the final product meets their expectations. The V Model may have limited customer involvement during the testing phase.