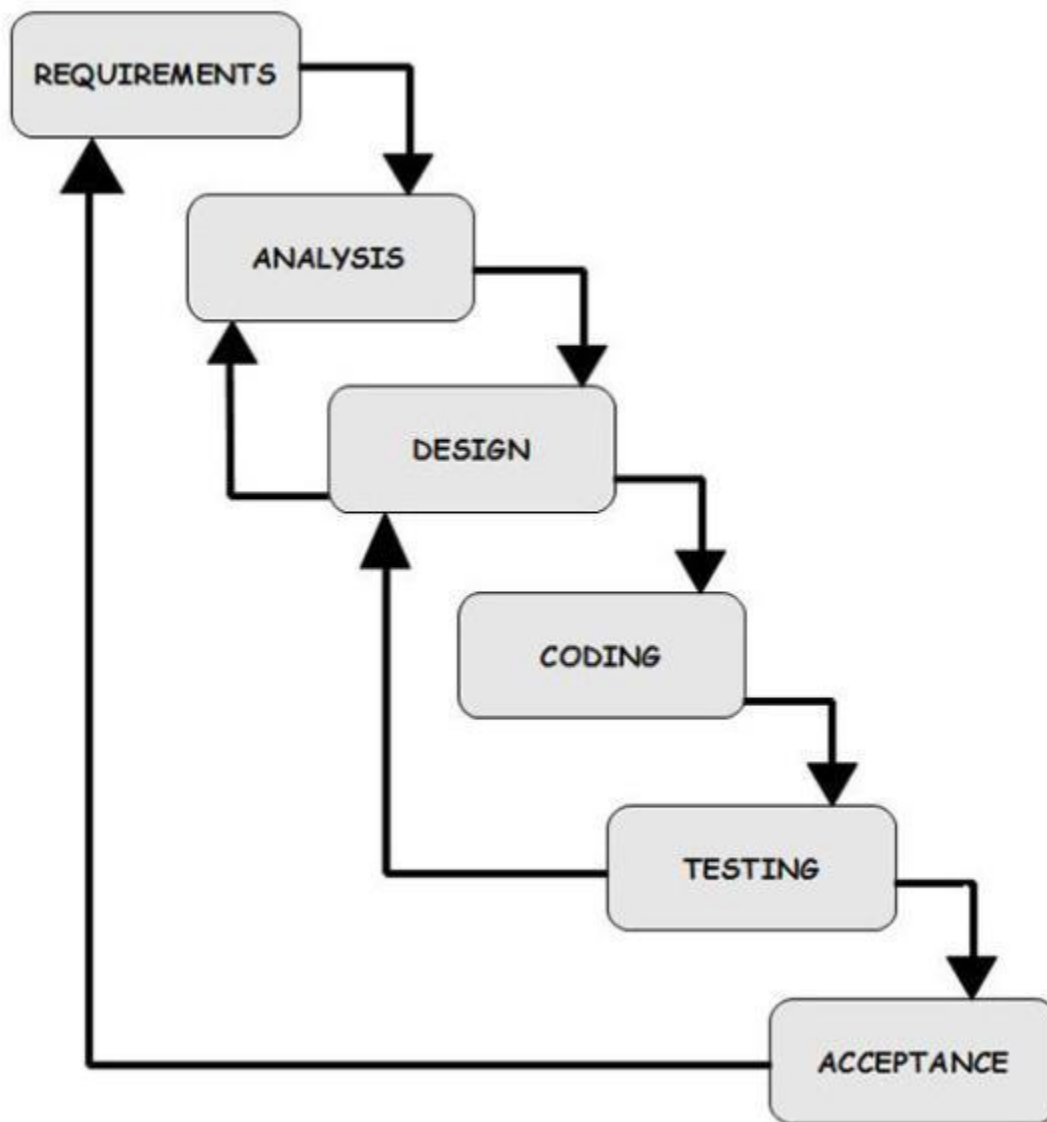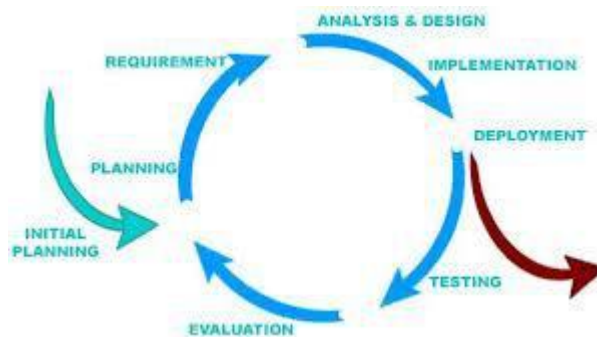# A Brief Comparison between the Waterfall and the Agile Model of Software Development



**Waterfall Model**

Agile software development has brought about innumerable advantages to software professionals than a waterfall approach, as the former/latter is more process-oriented and predictable. The Agile approach of software development revolves around adaptability and response time depending on changing requirements. The recursive nature of the work pattern is another advantage of the agile model over the waterfall model. Modifications can be made to the software results while opting for the Agile model; whereas I modifications are not possible when using the waterfall model.



**Agile Model**

It is important to note that the waterfall model is mostly implemented during the development phase previously. Many drawbacks were pointed out in this model which was then rectified for the emergence of other development models.

The Agile software development model is one of the successors too. Here are some of the main differences between Agile and Waterfall Models:

- The main advantage of the Agile model is the backward scalability. Under Waterfall approach it is not easy to change decisions which were made in the earlier stages. Any changes in the waterfall model demands the building of the entire project right from the start.

- The flexibility of error checking during any phase of development makes the Agile model the best approach for less erroneous results as compared to Waterfall model. The Waterfall model can only test bugs after the development of the modules.

- Agile model provides flexibility for making changes as per customer needs and guarantees client satisfaction. The Waterfall model suffers drastically in this respect since it does not allow any modifications midway through the development process.

Agile development promotes modular partitioning with options for segregation. The rules are set down before the project is executed. The Agile approach supports simultaneous development of different modules as per client requirement.