**Assignment-7**  
**Summary of Different Project Methodologies**

**Agile Model:**  
Agile is a flexible project management method where work is divided into short, repeatable phases called sprints. After each sprint, the team takes time to review what went well and what could be improved. This helps them make quick adjustments and improve with each cycle. Agile is great for projects that need frequent changes and continuous feedback.

**Waterfall Model:**  
The Waterfall model is one of the oldest methods in software development. It follows a straight, step-by-step process where each phase must be finished before moving to the next. There’s little room to go back once a step is completed, which makes it best for projects with clear, unchanging requirements.

**Spiral Model:**  
The Spiral model combines features of both iterative development and the Waterfall approach. It’s mainly used for large and complex projects where managing risks is important. The process is repeated in loops (or spirals), allowing teams to gradually build and improve the system while continuously analyzing potential risks.

**V-Model:**  
Also known as the Verification and Validation model, the V-Model is a variation of the Waterfall method. It emphasizes testing at every stage of development. Each development phase has a matching testing phase, and the process forms a V-like structure. This approach helps ensure that the product is thoroughly tested before final delivery.