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| **Waterfall**  **model** | **Iterative**  **model** | **Spiral**  **model** | **Big bang**  **model** | **Agile**  **Model** |
| Waterfall model illustrates the software development process in a linear sequential flow; hence it is called it also referred to as a **Linear-Sequential Life Cycle Model.**it is a simple model. | It is Incremental model.it will allow the large projects. | The spiral model combines the idea of iterative development with the systematic, controlled aspects of the waterfall model. | The big bang model does not follow any particular process and customer also not sure about his requirement. | Agile model believes that every project needs to be handled different and the existing methods need to be tailored to best suit the project requirements. |
| It is a step by step manner. if any risk happen then again moves to the first step. but it could not go back.**Agile methodology** used in waterfall model. | We can easy to rectify risks.it is multiple modules model. | It is also a sequential model.  It allows incremental releases of the product . | There is only little formal development process. The entire effort is spent software developing and coding. | Agile, the tasks are divided to time boxes(small time frames) to deliver specific features for a release. |
| Main steps for waterfall model:   1. Requirement analysis 2. System design 3. Implementation 4. Testing 5. Deployment 6. Maintenance | Main steps for iterative model:   1. Design 2. Coding 3. Testing 4. verify | Spiral model phases:   1. Object identification 2. Alternate evaluation 3. Product development 4. Next phase planning | Big bang model  Phases:   1. Heavy particle era 2. Light particle era 3. A radiation era 4. The present day era of matter | Agile model phases:   1. Concept 2. Inception 3. Iteration 4. Release 5. Maintenance 6. Retirement |