**Assignment-2**  
**Comparison Between Waterfall Model and Agile Model**

**Waterfall Model:**

* The Waterfall model progresses through the Software Development Life Cycle (SDLC) in a linear, step-by-step manner.
* Modifying code during the development phase is not permitted once a stage is completed.
* It lacks flexibility in adapting to changes.
* The structure is strict and sequential.
* Best suited for smaller-scale projects with clearly defined requirements.
* Generally demands a larger team to handle development tasks.
* Development costs are typically higher due to its rigid nature.

**Agile Model:**

* Agile methodology also adheres to SDLC principles but in an iterative fashion.
* Changes and improvements can be made at any point during the development process.
* It is adaptable and change-friendly.
* The approach is more flexible and collaborative.
* Primarily preferred for large, dynamic, or complex projects.
* A smaller, focused team can efficiently carry out the tasks.
* It is more economical and resource-efficient compared to the Waterfall model.

