**Experiment 2**

**Theory:**

Incremental Model is a process of software development where requirements divided into multiple standalone modules of the software development cycle. In this model, each module goes through the requirements, design, implementation and testing phases. Every subsequent release of the module adds function to the previous release. The process continues until the complete system achieved.

**When we use the Incremental Model?**

* When the requirements are superior.
* A project has a lengthy development schedule.
* When Software team are not very well skilled or trained.
* When the customer demands a quick release of the product.
* You can develop prioritized requirements first.

**Advantage of Incremental Model**

* Errors are easy to be recognized. • Easier to test and debug
* More flexible.
* Simple to manage risk because it handled during its iteration.
* The Client gets important functionality early.

**Disadvantage of Incremental Model**

* Need for good planning
* Total Cost is high.
* Well defined module interfaces are needed.

**Justification:-**

* Generates working software quickly and early during the software life cycle.
* This model is more flexible - less costly to change scope and requirements.
* It is easier to test and debug during a smaller iteration.
* In this model customer can respond to each built.
* Lowers initial delivery cost.
* In future, we can add new routes and bus stops according to the company requirements,
* As there will be future updates available, so that is why we are choosing Incremental Model.

**Conclusion:**

Hence, In this experiment we have implemented Incremental model for our project Bus Reservation System because there will be more versions of the software available and we can implement more routes and stops in the future..