**OBJECTIVE**

**Implementation of most representative Banker’s Algorithm in C Language for deadlock avoidance.**

Idea is to introduce the application of an example of deadlock avoidance banker's algorithm. In the method of avoiding deadlock, the limited condition is weak, and it is possible to obtain satisfactory system performance. In this method, the system state is divided into safe state and unsafe state. As long as the system is always in safe state, deadlock can be avoided. We can do this by using bankers algorithm.The Banker's Algorithm is a resource allocation and deadlock avoidance algorithm that was developed by Edsger Dijkstra in the 1960s. It is used to ensure that a set of processes requesting resources from a common pool do not end up in a deadlock, where each process is waiting for a resource that is held by another process.

The Banker's Algorithm works by maintaining a set of available resources and a set of maximum resources needed by each process. It then allocates resources to processes in a way that ensures that no process exceeds its maximum resource needs and that no deadlocks occur.