**ABSTRACT**

**Deadlock** is a situation where a set of processes are blocked because each process is holding a resource and waiting for another resource acquiredby some other process and the other process is not ready to leave the resource.

There are two phase in this project the first phase shows how the processes request for resources which leads to deadlock and solving it using a resource allocation

graph, the second phase is a **bridge problem** where there is a single lane bridge where the flow of vehicles is only in one direction either left to right or from right to left, this shows a deadlock situation where the vehicle from both the lane tries to enter the bridge at the same time which leads to inconvenience and total halt of the movement in traffic which is the best real time example of deadlock.