

## **ASSIGNMENT : 1**

### **Problem Statement :**

To implement a mechanism called Network Message Bus (NMB) on a LAN using UDP sockets and System V Message Queues.

### **nmb API :**

1. `msgsnd_nmb()` : Client uses this function to send message to receiver. Internally this request first goes to TCP server which processes it further ahead.
2. `msgrcv_nmb()` : Client uses this function to receive message sent to it. Internally this request first goes to TCP server which picks up the message from system queue.
3. `msgget_nmb()` : This function is to create the system queue.

### **local\_server :**

1. TCP : The TCP server running on port no: 1111 receives messages from client, then it sends the message to UDP server running on port no: 1112.
2. UDP : The UDP server receives message sent by TCP server and puts the message into system queue.