

**Program Link :**

[https://colab.research.google.com/drive/1Q0\\_6WZBT6oJrFlpwhN5v4s9ZJFJWgAO0?usp=share\\_link](https://colab.research.google.com/drive/1Q0_6WZBT6oJrFlpwhN5v4s9ZJFJWgAO0?usp=share_link)

**ReadMe:**

Open the Google Colab notebook by above provided Link you can View the output and result directly within the notebook.

**Explanation:**

This is a basic simulation of a network where one device sends data packets to another. It uses the Go-Back-N method, which lets the sender send multiple packets at a time without waiting for confirmation. If a packet is lost or delayed, a timer alerts the sender to resend the required packets. The sending and receiving processes run continuously while the program is running, imitating real network communication. Threads are used to handle sending and receiving at the same time, like how real networks work with separate processes.