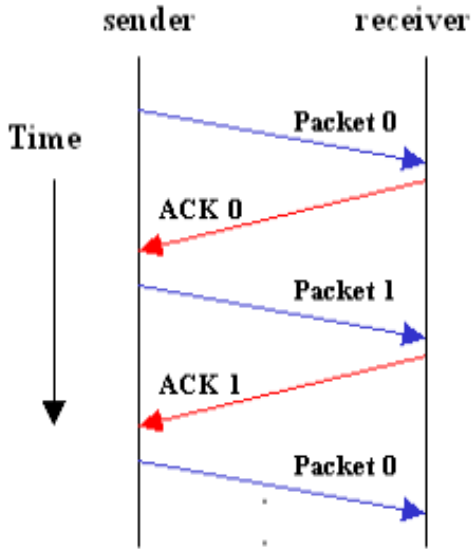
**Introduction to Socket Programming Part II**

***Stop-n-wait"*** (sometimes known as *"positive acknowledgement with retransmission"*) is the fundamental technique to provide reliable transfer under unreliable packet delivery system.




After transmitting one packet, the sender waits for an ***acknowledgment (ACK)*** from the receiver before transmitting the next one. In this way, the sender can recognize that the previous packet is transmitted successfuly and we could say "stop-n-wait" guarantees reliable transfer between nodes.

To support this feature, the sender keeps a record of each packet it sends.
Also, to avoid confusion caused by delayed or duplicated ACKs, "stop-n-wait" sends each packets with unique sequence numbers and receives that numbers in each ACKs.

Assignment

[i]. Develop the previous code (same code used in lab 01) to implement Stop and Wait protocol

[ii]. Improve the code to implement Stop and Wait ARQ.

[iii]. Implement Selective repeat protocol using the same code.

[iv]. Modify the selective repeat protocol to enhance utilization of the channel.