

Program No. 5: Develop a simple data link layer that performs the flow control using the sliding window protocol, and loss recovery using the Go-Back-N mechanism.

Soln:

- #include<stdio.h>
- int main()
- {
- int w,i,f,frames[50];
- printf("Enter window size: ");
- scanf("%d",&w);
- printf("\nEnter number of frames to transmit: ");
- scanf("%d",&f);
- printf("\nEnter %d frames: ",f);
- for(i=1;i<=f;i++)
- scanf("%d",&frames[i]);
- printf("\nWith sliding window protocol the frames will be sent in the following manner (assuming no corruption of frames)\n\n");
- printf("After sending %d frames at each stage sender waits for acknowledgement sent by the receiver\n\n",w);
- for(i=1;i<=f;i++)
- {
- if(i%w==0)
- {
- printf("%d\n",frames[i]);
- printf("Acknowledgement of above frames sent is received by sender\n\n");
- }
- else
- printf("%d ",frames[i]);
- }
- if(f%w!=0)
- printf("\nAcknowledgement of above frames sent is received by sender\n\n");
- return 0;
- }
- }

