Exp No: 7 SLIDING WINDOW PROTOCOL 26/9/24 Write a program to implement flow control at date link layer using Sliding Window Sender program features: Input windows size from user. Input a text message from user.

Consider 1 character per grame

Create a grame with following fields [Frame no Data] · Send the peamis .

Wait for arknowledgement from receiver. Reader a gile called Receiver. Buffer.

Check ACK field for Schnowledgement number.

· If acknowledgement number is as experted, send new set of peames accordingly, else if noch is received, read the geames accordingly.

Receiver program gentures!

. Reader a file Laterd Sender- engla. · Check the grame no.

. If the frame no are as expected write appropriate ask no in the receiver buffer gite.

Code: import time import or os. system ('clear') SB = open (" Sender-Bygger. txt", "a+") RB = open ("Receiver\_Buffer.txt", "n+") SB. trumate (0) RB. trumate (0) was = itet (input (" Enter Window size: ")) S = input (" Enter Imput String: ") s: list (s) if ( ws < len(s1): for i in range (o, len(s), ws): P = s[i:i+ws] 2 - S[i+ws: i+ ws+ws] print ("sent -> "+ sta(p)) time. slep ( was ) print ("Sending ->", str (4)) X = 0 while (x < ws): time. sleep (2) \* (len(p) > x): print ("ACR~1", P[x], "!") RB. wik (P[x]) time -deep (1) if (len(y) > x): print ("Sending -> ", y[x]) SB. write (y[x]) print ("> The window size is too luge ")

Input: Enter Window size: 4 Enter Input String: Hello Output. Sent → ['H', 'e', 'l', 'l'] Sending -> ['o'] ACK ~! H! Sending -> 0 ACK ~ ! e 1 ACK ~! 11 ACK ~ ! & I Sent > ['o'] Sending -> [ ] Result: Thus to implement flow control at data link layer using sliding window protorol has been implemented successfully.