EX-norty Priding Mindon Incharch notogles with the second second second Afra: hinste a program to implement blow Control at dada link layer wind solding window protocol simulate the blow of Igramos forum one node to another. about the formers of the same of the Program: hender-my with some sold with import time war be wateried dob how-window-sixocs: import os return int Cinput Center window Mixa: ")) det input_text_morrage(): return input ("Enton text marriage") dob (reale-Granos (text-morrage): france = [(i, var) bor i, char in enumerable (tent-morage) frama append ((len (text-marrage) (Cluby) meturn brames det write-to-bile (bilerame, data): with open Cabilerane, 'n') as file: for brame in days: file write (f"(frame [0]),

del road from the Chlerane, If not as path, exists a college The Extended for with open (bilarame 1417 ax delle return Land stripe visputes, 540 deno in with republicances deb hend-donner (donner, windows while it len (dyamon); 7 miles miraphysestill common trititions and mind Print LA" herding drama Ruthday wite to bisc gard bubber " * 141 any window) Almerstockes) is the tops got receiver butiers read frombile (Parasyon bulger, ta) it hat we conver pupper. print ("No acknowledgement continue () "received yet") ack from = receiver bubbentos acce humbor acceptages that ack form [63), ack - Grame [1] TE dek-tupe : Ach! print (f" ACK received box croperty frame Lack not, sondre pont 3et of frames")

1++ Hirdow, Stre out acknyobe " " Hy ch! print (4" nack sociologic box brame fack not, normaling framos from brams four ref (sack-1) and of the many aleb main-serdonch window stro input window strol) tent morrouge = input tent morrouge () framos = Create-bramos (text mostag) send. frames (frames, windows stro if name = = " mach - " Him main sorderes Receiver-Pu Import reardon import time a property Import os defenite_to_bilelfilerame, dates); with open Cficerame, we jos blos bila, corite (data) det read- brom-bile (filerand). If not os pout exists Cfilenamel returnes with open (filenams, 121) as bile!

return [like stripes sput ('1) for line in fire readlingy dol process branco (brancos): acks sty frame-seen-set () for brame in framos: frame_ rumber = int (frame [0]) double brametize 10 mobstos if frame-number in browne-seen: Print (f" Received Frame Liframenumber 3: Edatas") If random choice (I true, false): Print(f" Sending Ack bor frame I frame number 311) acks append (fil frame bumbons framo seen-addiframe number Sister open Chilomone i'un son still also . print (f" sending NACK for frame frame humber 3" acks appoind (f" & frame numbers, OACKIN") was as procedured the same of the metura 11. Joan caches)

det mach receivancs while mus: time , sleep (8) south you have property frama snead brom the ('sendar-Bulber +xx1) if not brames: Print (" No Grames to process, waiting,,,11) Continue acks = process_ frames (frames) Write-to-bile (Receivon-Bubben, +x+1, actes) if any (frameli] == 'END' bor frame in brames: Print (End of transmission received.") break if-mane == "_mark_"; mach-recaivenes output: Elden Window Size: 3 Enton bot morrage : hii Sending frameri[(0,1/2,(11/1))] Ack received for from 2, sending hered het ob bound.

Sending frames: [terlis, 18, 'Ends Ack received for brame 2 Sending resultiets frames rance). receiver py Received Frame 2. END Sending ACK for brame 2 End of transmission received. commy commy frames of extenses 100000 - 100000 19 Wind - 04- 9-17-11 1 Jolean + art rod ans == transition 1 (comord is enough print (End of Arounistics (" boviosor 11 9 mars 11 = amors 71 in cut a social west いまいりたいつ entire consonied notes Thus the program is Successfully executed and Act to coived they