Praidical of 219/24 Alm: write a program to implement flow control of dada link layer being Stiding window protocol. Simulate the flow of francis from the rod to another Create a Sender program with Sollowing features. > Input window Size from the way. > Input a Text menage from the wer 3) Create a frame with following fello > Send le frances (print the output on Server and Call - Scinder . miffer => Reader a file called Receiver Buffer. =) Check Ack field from the Acknowledgement Create a reciency file 1. Teader a file Called Sender - Buffer 2. Check-the france no 3. if the fourmenumber excepted write the appropriate Act no in the Receiver-bythe file. Else worke Net no in the Recieves California / Some it is well () your soil The may of Johnson in a major Ather

def sendal):
who dow Size = int (in part ("Enter the windows:
" " message.") mesting = input (" mestage: ") I sames = C("France No.": 1, Data": Charge for i, char in chemorate (menage) Senda-huffer=CJ Current france = 0 While Current-frame 2 total framo: for i in range (window_SZE). if everent frame + ictotal frame. frame frames (current - frame + 1) Serder-buffer appered (frame) Point (f "Sent : france No Efford Prane No. 133 Data: Pfland "Daty Voith open (* Serder-truffer: 124 " w") 28 file: Los frome in Serder-huffer: Alle conte (f'Agame NO. (frame NO.) Data: Eframe ('Data] gln') Line Slep (2) with open (" Reciever Buffer. tot; "r") & Teceiver - Desponse = floward lines!

ack numbers = (3 for the in occieves paparks 19 ack_info = line Strip(). Splif() range of == "Ack" ack members appeal (int (ackings) elif ade infly == "NACO" hack_ int (ace_info[i]) Current frame - nack-number break it Set (ack_runbus) = = Set (range (Current-frame, Cicron-frame, window Size recover. Py Dai Impost random import time def reciever(): while True: with open ("Sender_Buffer.+x+", ">"Ses I seemes = file read lines () reiem byfu = [] gos frame inframel If random. random () < 0.2 Print (frame-no) reciever buffer appund (I was former break

elx: Point Cf " Recieved of some No. I frame hog with data diciney but to append (471 Ack (frame nog.) with open ("Reciebel_Buffer textin") as file. for response in occience huge.

file worte (I 11 (Desponse 3 /na) what do so! the Sleep (t) if_name_== 12 main_1. Output merlege: h1 Sent frame No. O Data: 6 Sent: france No. Destail reciever output i file Ack On the Ack ACR. NACKO Thurthe Sol Who window Program executed Regult