Silini as Anada

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STUDENT'S ROLL NO.:

3330



	Assignment 8 -	
		mulate Go Back N and of Sliding Window Protocol,
	Plaw control is basically permission to two state processing at different specially with one another. Flow simply restricts or coordinate of that or the amount of	ons that are working and eds to just communicate control in data link layer nates the number of frames
	from the receiver. This me wait for an acknowledger data.	echanism makes the sender ent before sending the next
		Sliding Window Protocol
a	Sender sends one frame and waits for an acknowledgeme from the receiver side.	Sender sends more than nt one frame to the receiver side and re-transmits the frame(s) which are
Ь	Efficiency is worse.	damaged or suspected. Efficiency of sliding window protocol is better.

	Stop and Wait Protocol Sender window size is 1. Receiver window size is 1.	Sender window size is N.	
		Receives window size May be ler n. Aliding window protocol is full duplex.)
f.	Efficiency of stop and wait protocol is 1+2*a here a > Ratio of propagation delay vs transmission delay	Efficiency of sliding window protocol is N N > no. of window 1+2*a frames a is ratio of propagation delay vs transmission delay	w
3.	Describe Go-Back-N protocol working with diagrams. In Go-Back-N protocol, N is the size of the window (sender) In the chample given, the sender usindow size is N=3, so 3 frames can be sent at a time before enjecting any acknowledgement from the receiver. If the acknowledgement of a frame is received the window slides, else all frames in the window are resent.		

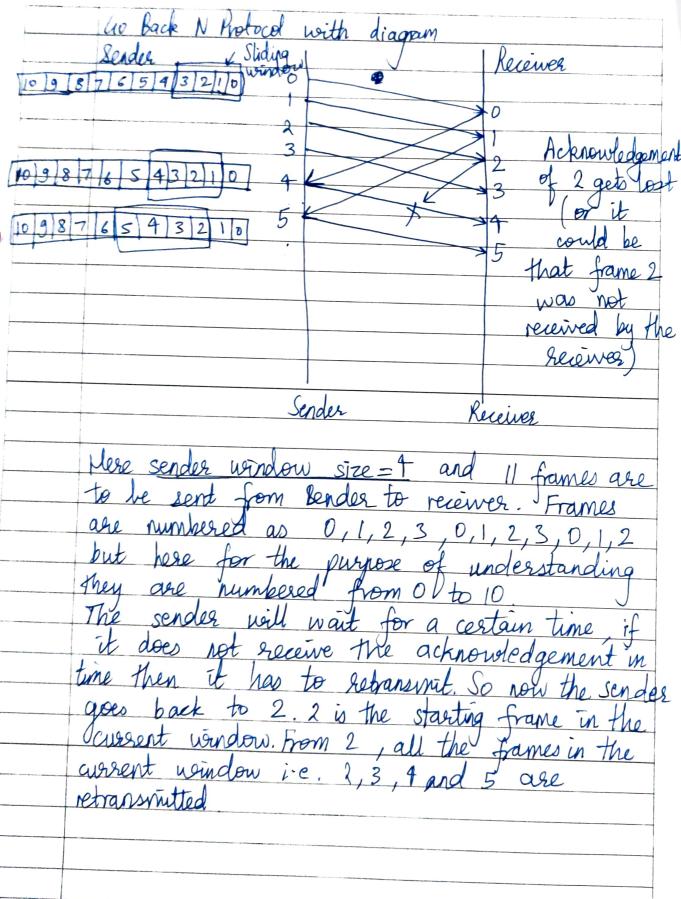
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9. Write	program logic of Go Back N.
Sena	lea -
	base = 0, next seg num = 0
2. 1	rest segrum < base + N then packet with
- pac	ket with sequence no = rentseanum is sent.
3. The	ket with sequence no = rentseanum is sent.
4.	ack n is received then base = 1+1.
5. If	base is equal to nextseanum then the is stopped else it is started.
times	is stopped else it is started.
6. In	case there is a time out, the timer is
restar	ted.
Pack	et with segrum = base is sent, nent parket
with	Segrum = base + 1 is sent and so on till
pack	et with segrum = (next segrum - 1) is sent.
7 The	et with segrum = (next segrum-1) is sent, process keeps repeating till the connection is inated.
tern	ihaled.
n	
0 .	wer -
	segnum = 0
2. 15	packet is received then-
7	If the packet is not corrupted, and its
seg	vence much = next seg rum then the data is
	executed as the upper layer.
	cknowledgment of newsegnum is sent.
3 0 10	entegrum is incremented by
3.	is dropped. Ack of nentsegrum - 1 is
8en	
4. (A) F	be the program ends.
5. Stor	
ter	minated.

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		-
5 Dave to cal	etia menat motoral	rorling diagram
3. Vooruse Seu	ective repeat protocol, enly	the enoncount
lant I me a	re retransmitted while	the correct
	received and buffered	
Dues window	v size = 4 and 11 f	ranges are to
be sent.	Serder	rames are to Receiver
-1		
11 10 9 8 7 6 5 4 3	2110	
	2	0
	2 1	
11 10 9 8 7 6 5 4 3	2 1 0 AC	2
11 10 0 11 0 5 11 -	5	3 frame 2
11 10 9 8 7 6 5 4 3	210	4 0
	6	5 corrupted
Here the sender	will	or lost.
not send fran	nes 4	So act for
and 5 again.	It knows	frame 2 is
that frame 2 is		Not sent. Negative
as a regative	ACK has been	ACK G
sent from for.	frame 2. So sender w	ill frame 2 is
retransmit frame	2 again and the of	ier gent.
frames will be	transmitted as usual. I	lese the
	v size does not play	
	ender is going to retr	
frames for ushic	h regative ACK has	been
received.	<i>f</i>	
Selective repeat	protocol has fewer	retransmissions
as command to	protocol has fewer of Go Back N-ARS.	
7	J	

6.	Write program logic of Selective Repeat protocol.
->	Set the sender window size (Ws) = Receiver
	window size (WR)
→	Sender can transmit new packets as long as
	Sender can transmit new packets as long as their sequence no is within window of all unacknowledged melects
	The state of the s
7	Sender retransmits unacknowledged packets
	after a timeout or upon a regatile ACK.
-	Receives sends ACKs for all the correct
	packets. It stores all the correct packets
	layer in correct order.
	layer in correct order.
	V