	Name: Raigh Paige au
1	Name: Rajat Rajesh Shety. Assignment-6 12378 19 CWID: 10477484 Assignment-6
	(1) 15 mm - 1 mm
18	(1) Suppose client A initiales a Telnet-session, with S. At about the some time, client B also initiales a Telnet- Session with some time, client B also initiales a destinate post number for
	Session with comes is Penninde possible
	posit number fosi
	1 The CALLACAL C CONF F970ML TIME
Townson.	
	d) The segment sent foroms to is possible that
, sw.	d) The segment sent foroms to 13- e) If ALB are different hosts (It is possible that the source posit no in the segments From A to 5 12 the same as that forom \$ to 5?
100	form \$ to 5?  4) How about they are the same host?  Sounce destination Pontr
	Sounce destination
	9 461 a3
	# How about they one the same host?  # row about they one the same host?  Sounce destination Pontr  pont nos  pont nos  467,  A3  B B-15 513  A3
	9) ~
	c) 57A 23 513
	- 17 5-113
13*	마다 보고 있는 경우에 있는 것이 되었다. 그는 것이 되었다. 그런
	e) Yes
1.4	
	(onsiden fig. 3.5 what are the sounce diestination post-  (onsiden fig. 3.5 what are the sounce diestination post-  (onsiden fig. 3.5 what are the prom the senten back if  values in the segments following from the senten back if  values in the processes? what are the IP addoncines in the
(	consider fig. 3.3  (onsider fig. 3.3  Consider fig. 4  Cons
	valver in the seg what one the IP addorcines in the valver to client powerses? what one the IP addorcines in the to client layer datagram can refusit layer datagram can refusit layer
Service Control	
	segment.  Segment.  Assume the IP addinesses of the host A-B, C ane a.b.C.
	ASSOCIATION
	To host A source posit= 80, source Il address=b, To host A source posit= 26145, idestinate IP address=b,
	70 lestination 12 address = a

To host Ci left paroieis: souarce posit=80, rounce In adduis=P dest post = 7532, destinate Ir addnis= C To host c, night process, sounce poort=80, sounce spaddiess dest post= 26145, destination IP address= C. Given & bit bytes ane as follows: 01010011 01100110 01110100 Calculate the sum of the giren 3 tyles. Add figst two 8-bit bytes 0 1 0 1 0 + 0 1 1 0 0 1 10 10111001 now add the gresult with 3rd byle 10.11.001 0-1-1-1-0-1-00 00101101 war ap amound the extena bit. 01101101 一种·文学士 对是主题是 18 1111 0 6 1 0 1 1 1 0 The sum of 3 8 bit bytes is 00101110. Invest all the bits to get check sum. now calculate one's compliment of the sum. convent all o's to I's Checksum is 11010001. ~ a rise regisa to find the l's compliment. The 1's compliment of (sum) · 0 0101110 is [1101000] It is clean that the 1's compliment 4 the checksom and some UDP uses the 14. compliment as it is some as the shecksum of The checksum is weed by the grecients (host) to identify the emoss in the

The perocess of defecting emmons by the medievens: The necieves performs, the following steps at the necicions end to identify the engrous in the segment.

including checksum. · Add all the byles

obscare the sum.

· If it contains all 1's then the segment has no emoss.

· It It contains 1 by mosie o's then the segment contains

All one bit enmons will be detected, but a bit enmons can be undelected.

The postocol osted 3.0 is used to tonansfer data forom sender · if a senden to anoteen the packet to the enecieven, then to grecieven.

. If senden necicied Ack than go to next level. · In this process, needs sequences no to the senden for

finding duplicate packets data or Ack data.

· il the senden finds any duplicate ACK, then ignose it. In this proces. Act packets does not require sequence

So, Ack packets doesnot gregulare sequence nos.

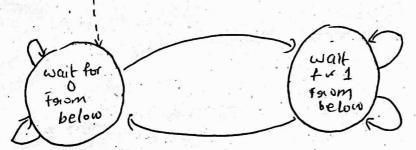
1) graw the FSM fogs the necieven side of posotocol Tdf30 To teransferr the data over a channel, gidt 3.0 perotocol

is useful. It is a greliable perotocol.

The senden tenanemilis the partet. 4 the enecieven acknowledge it by sending an Ack & confirms the packet is recieved. The gidt. 3. 0 perotocol allows duplicate packets into the sends to grecieren data stone om by adding timeout. This is not possible in side 2.0.

The ndt3.0 4 ndt2.0 wonks in the same way at necessary end. Both handles duplicate pactets.

FSM diagram for the orecteren side of the protocol ordf.3.0 Tis follows!



The FSM will be same at the FSM of Tdl2. I given in the figure 3.12 of textbook.

If the sender sends the data inforequently, then the NAILonly peratocal is not professived. It is good to use the peratocal that

· The main disadvantage of NAK only partocal is that it can detect uses ACKS. that the packet has been lost only when the next packets is

orecieved by the grecieves.

. The NAK only protocol greatize the loss of pactret aster a longtime when it enecieves the data packet with warong seg. no as the senden sends the data parkets occasionally.

· when the occieves orealize the packet loss, it sends NAK to the senden 4 the senden has to grefnansmil-both the lost

· il the sender sends the data Frequently, then the NAK-ony priotocolis preferenced. The priotocol that uses Acker & not preferred as it requires to send more no of acknowledgments. when the senden sends data frequently 4 the data loss rate is veg productess, then a NAK only perotocol is pereferente to a

· The necieron sends the NAIC as Il- nealizes the packets perotocol that uses Acks.

los quickly as the data transmitted forequently:

since the data loss is less, the no of NAK in NAK-only perotocol is less when companed with perotocol that uses