DATE: 02/05/2024

	Submitted By: Junaid Agil	
	R. 11 No : BSAI-149	
	Class: BSAT (JV-gen)	
	Subject : Computer Networks	
	Compared the swall state	
	Submitted To: Dr. Main-ud-Din	
	,	
	Assignment #02	
Qu	Analyze and I describe the working	
	Analyze and & describe the working of selective repeat protocol.	
-	about the second of the second	
Ans	Selective repeat is a type of Automatic Repeat reQuest(ARQ) protocal used in	
	Repeat reQuest (ARQ) protocal used in	
	data Communication It is a variout of the	
	Go-back-N protocal but its offers greater.	
	efficiency by retransmitting only those	
	efficiency by retransmitting only those packets that have been detected as	
	Dost or corrupted. Let's Live into how	
	selective repeat works:	
	The second secon	And Angelia
1.	Sender Window: The sender maintains a	
	eliding window of Pize N where N is	
,	the maximum number of unactinguille deable	
	packets that have been detected allowed	
	in the network at any given time. Fach	
	packed in the window has a	1 - 5 6
	unique sequence number assigned to it.	. 21
	,	

	DATE ://	
	2	
2.	Receiver Window: Similarly, the receiver	
	maintains a diding window of the same	
	Size No but in this case, it tracks	
	the packets it expects to receive.	-
٦.	Packet Transmission: The sender gende	
	alale P H I ender gende	
	packets from the beginning of the window requestically Each packet contains	-
	window Requestically tack packet contains	
	a sequence number	_
4.	Acknowledgment: Upon receiving a packet,	
	the receiver checks for errors. It a	
	packet is error free in squence it ends	1000
	an acknowledgment containing the sequence	- 1
	number of the next expected potpacket.	
	All a few fields and the second secon	
5.	Selective Repeat: Here's where the reloctive	
	repeat protocal differe from Go-Back-N.	
	Instead preket of retransmitting all	
	packets from the beginning of it the	
	window upon detecting a lost or corrupted	
	packet selective repeat retransmits only the	
	specific packed(s) that are: missing or	
		1
	corrupted. This selective retransmission is more	
	efficient than retransmitting the entire window	
	especially in networks with high band-width	
	delay product.	-
	Selective repeat protocal offers	-
***	efficient error recovery and utilizes network	

	DATE:/	
ĺ		
	resources more effectively compared to Go-Back-N, especially in scenarios where packet loss or corruption is relatively	
	Go-Back-N, especially in grenarias where	
	socket loss or and in it relatively	
	taxa 11 a il interpreta presenta	
	tare. However it requires additional buffer.	
	space at both the sender and receiver	
	ends to store out-of-order nockets.	
, A-1		
		N 19. 1 1
)		2 46 4
		150.0
100		
		1
		-