	Parul® University	NAAC OH
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Pg. No.: 29 Date:

acticul	Framing Protocol: Bit Stuffing
10	Implement a Program in C which demostrates bit-stuffing framing technique, where sender neads data, applies bit stuffing to the frame and sends it to neceiver
*	Objective:
	To implement a C program demonstrating the bit-stuffing framing technique in data communication. The objective is to simulate a sender-neceiver.
	The program helps understand framing in data link layer, ensuring reliable transmission by avoiding misinterpretation of frame boundaries.
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	Parul® NAACOH Date :
*	Code
	code
	#include <stdio.h></stdio.h>
_	#include < string.h >
	Sening in
_	int main () \$
	chasi data [100], stuffed Data [200];
	int i, count = 0, $j = 0$;
_	
	printf C"Enter the data: ")
	scanf ("% g", data);
	C
	for Ci = 0; i < stylen (data); i++) \$
	If Cdata [i] == 1] &
	Count ++;
	stuffedData [j++] = data [i]; 3 else {
	Stuffed Data Tj+t1 = data [i]
	3
	if Count == 5) {
	StuffedData[j++]='0';
$-\parallel$	count = 0;
	2
	<u> </u>
	stuffed Dal Tin - 1101.
	Stuffed Data[j] = '\0';
	Drintf C"Data after hit chaffing ex "
	printfc"Data after bit stuffing:%s\n", stuffedData);
-#	netunn 0;
	4

	Parul® NAACO++ Pg. No.: 31 Date:
*	Output
	Enter the data: 1111101111111111111111111111111111111
	=== Code Execution Successful ===
*	Leaning Outcome
•	Understand the bit-studenstuffing technique: used in framing protocols.
•	Leann how to modify duty streams to prevent misinterpretation of control flags.
•	Gain practical experience in String manipulation and conditional logic in C.