PART-B WAP for error detecting code using ere-cent (16 6/15) # include Gostream > # include < string h> using namespace std int the (char "ip, chas" op, char "poly, int mode) { strepy (opije) 4 (mode) ? for (int i=1; ix etrkn (poly); i++) Streat (op "o") torten (int 1=0; kstylen (ip); i++) } 4 (op (1) = (1) 9 for (int jeo; jx strlen (poly); jt+) & op [iti] == poly []) op [iti] == '0' else og [iti]] == '1' for (int iso; is streen (op); in) { if (0) (1) == (1') you ad deal best who san to relain s; int main ()? char 4 [50] , op [50], recr [50]; char poly [3; 1000010000010000] cout < "Enter input mig it binary" = end 1 crc(ip, op, poly, 1); courter Transmitted mag is a ip ex op + streen Cip) exends coul « Enter reined mag in binary wend 1;

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	iout «"No error in data" wendl
	OUL & NO LITE
	clse cout « "Enter has occurred" << endly;
	setarn 0;
	3
- Op:	Enter mig in binary
	1111101
	Transmitted mag 4: 111 11 011 010 1111 00 111 010
	Entr surered misg in binary
	1111101
	No essor in clata
	The First of Thebase English TH
02	war for congestion control using leckey bucket.
	# unclude viostream>
	#unclude <string h=""></string>
	#Ising namuspace std
	# unclude codio h?
	#unclude Adliphs
	# include < unistd. L>
	# define no of-packets-10
	int rand (int a) {
	int m - (2andom (17.10)/12;
	Seturn m=011; rn;
	3
	ent ena is () \$
	ent main() {
	int packets (no. 9-packets). 1, alk-b-gize-o-rate, psz
	# P-SX p time op
	for (i=0; ix no. g-pallets, i+1) {
	2 packed sx 51] = rand (6) +10;

	for (i=0; knowd-packets, E++)
	printf ("In packet[yd]: yd bytes It, i, packet=sx[i])
	printf ("In Enter of ratio))
(%)	print ("Id , to-rate);
	Scant ("Enter bucket sine :");
	sont ("id. f bucket-size);
	for (i=0; ix no-of-packets; i++) {
Pr.	if ((packet-shti], psx m) > bsize) {
	el (packet_sz [i] = b-size)
	print ('In In Incoming packet sixe ('d bytes) is
	greater than bucket capacity ('1d bytes).
	Packet Rijected", packet_sz[i], b-sike);
REPAIRS	to else inimane upor bottomannet of every likely
	print+ ("In In Bucket cogacity exceeded -rejected");
	1 N. of parties to transmit of ordered to the
	else {
	P.Sz.m += packd - 3x Till
	paint (" In In momming packet size 1/d", packet-size [1]
	printle ('In Bytes remaining to transmit /d", p-sz-rm);
	p-time-rand (c1) 10;
benu	print('In Time dept for transmission: Vd units", p-time);
	for (clk = 10; clk <= p-time; clk += 10) }
	sleep (1)
	if (P-size-tm) {
	1/ (p-st-m < o rate) Op=p->2-rm p-sznm-0
	dse op= omte, p-sx-rm=ante
	printl ("In Packet of sixe /d transmitted", op);
	print (" bytes remaining to transmit: 1d, psz, m)
2 /2	else §
	prints (* In No packets to transmit)
	3
	3

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olo:	packet [0]: 30 bytes packet []. 10 bytes
	packet [] W bytes packet [] W bytes
	packet (). & bytes
	Enter output grate 100
	Enter bucket sixe :50 > 4 17 12 20 10 10 11 11.
	Bytes remaining to transmit: 30
	Time left for transmission: 20 units
: (1)	Packet grize 30 transmitted bytes remaining to transmission of whits
	No. of packets to transmit!
100.00	Incoming packet sike 10 Bytes xemaining to transmit 10 Time left for transmission: 30
1 (2)4	Packet of sixe 10 transmitted. Bytes remaining to transmission 10 units
	No facket to transmit! Time left for transmission - princts No packets to transmit.
-	Incoming packet size 30 Bytes remaining to transmit 30
	Packet of six 30 transmitted Bytes Hemaining to transmit &
	No packets to transmit

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	DATE:
	Time left for transmission O units
	No packets to transmit
	three faither froze) for me fire
03.	
	client sending the file name and the sever to send back
	the couler to of the requested the y present
	white an aport - thook (42 an)
*	CLIENT SIDE DO AND Whom & whole me who
- 1	#include <uristd.b></uristd.b>
	int main () {
	int sa, n
-	char butter [1024], trame [50],
	struct Sockaddr_inaddy
	30c = socket (PEINEC, sork-stream, o);
	addr sin_port - htops (7891)
	addr sin addr.s. add: inet add ("127.0.0.1")
	ushile (connect (soc, (struct sockaddr) & addr_sixeof (add)
	printf("In client is connected to server"),
(print+ ("Extentile name");
	scant ("/s", fname)
	sent (sec, frame, sixe of (frame), o);
	printf ("In Recieved response \n");
	while ([n = ser(so, butter, sie of (butter), 0)) >0)
_	printf ("1.5", buffer);
	galusy 0;
1 - 11	12 many Driver Dollar in Julia 2 habon 300 political 100
-	Wy wines it is specific and all contents to the
40	SERVER SIDE:
	#unclude stdinh
	# include <arps h="" thet=""></arps>
	# include < fentl h>
	#include kunistd-h>

	int main () {
	ind extrome, new soc, ton,
	char butter [1024], frame [50]
	Struct Sectadds, inaddy
	welcome socket (Pi_INET, Sock_stream, O);
	add sin family = AF_INET;
	addi_sin_port - htons (4891);
	addi-sin addr s addi = inet addr ("127.0.0.1);
	bind (welcome (struct sockgoldr') 4 addr, site of (addr));
	point ("In sexuer is online");
	lister (welcome, 5).
	Now en = accept (welcome, NULL, NULL);
	sec (new-soc, frame, 50,0),
-	point ('in Requesting for file 's in', frame);
	fd = spen (fname, O_RDONLY);
	4 (fd<0)
8, 95	send (new-soc, in file not found in , 15,0);
	else
	while ((n= read (fd, buffer, sixiof (buffer))) ro)
	printl (In Request sent);
	close (1d);
	setum o
	3. Marine and the complete of any many
	The second secon
04	Using upp sockets, white a client-serves program to make
	school sunty and the traine of the security to send back
	and aguested file if present
	#Include <stdio h="</th"></stdio>
	# shelude <strings.h></strings.h>
	# include < 845 / types.h>
	#undude Kaspa finet h>
	H .

	DATE:
	#include < sys/socket: the
	+ include < net inet / in h> >>> million
	# define PORT 5000
	# define MAXLINE 1000 Cool & willed and
	int main () good while possessint ent
	chas buffer [1003;
	chas message: Hello Clienti;
	int listenta, len; box bonne ?)
	Struct Sakaddr in servaddr chaddr;
	been (& servaddy, sixe of (servaddr));
	ledentel = socket (Af INET. sock_DGRAM, O);
_	Servaddr sin addrs addr htonl (INADDR-ANY);
17	Servaddr. sin_port=atons (POKT);
	servaddy. Sin-family - AF_INET;
	Bind (listenfo, (Struct sockaddi) + servaddy, sixeof (add)
_	len = siked (cliaddr):
	int n - recv from (listental, butter, sike of (butter), o,
10	(Struct Sock adds *) & cliaddr, & len);
_	butter End = 10%
, 14	puts (buffer)
_	Send to (listenfel, me seconer, MAXLINE, O, (Struct socketant)
	Achaddr, Sizuel (cliaddr)
	3 (bhlase Marala
/	HUDP CLIENT DRIVER PROGRAM:
_	#include soldio h>
-	Funclude 18trings. L>
	Finelude (sys/types.b.)
-	#include sarpa/inet.h>
_	#include <sys socketib=""></sys>
	# enclude suetinet. h>
_	#unclude runistd. L>
_	Finclude & Stdbb. h>

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-	DATE	:	

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Control of the Contro	#define POKT 5000
	# define MAXLINE 1000
manufacture and the second	int-main()}
	char buffer [100];
	chas * message = "Hello Server";
	int sock fd i n
	struct sockadd in servaddy;
	how Co sended of god (controddy)):
	Servaddy Sin addr s-addr inet addr (127.0.0.1)
	Served Sin add Stand PORT
-	Servada Sitt port - Mois (1010)
	Servadd 1. Sin family = AF INET;
	Socked - socket (AF_INET, SOCK_DORAM, O);
	if (connect (socked, (struct sockaddr ") + sanaddr
1800	Shar of (servand r) 120) grant race rho o see
31/5/2011	print ('In Error Connect failed In");
	exit (0); (2) (2) (1)
	4 days about the bloom was a for a
	Send to (socked, message, MAXLINE, O (struct socked)
	size of (servaddy));
20.3.5	socked buffer everall tilling
14.1.1	SOCIOLIA PULL, NULL);
	puts (buffer) yould former who says
	close (socktd)
	n: 0
9	F. Server output:
	Server is online
	Hello Server
	SAY PLANTS AND A SAY
	Client pulpul:
	Hello clent.
	A bisching runisted ko
	34 in 19
lands	