output

cc client. c -0 cli

cc client. c -0 cli

socket successfully created. --connected to server
enter the string: hii

from server: hi!
enter the string: 12345

from server: hiki, Lello!
enter string

output ce server.c -0 serv · Iseru successfully created. socket successedully binded. server listening ... server accept the chient from client . his To clint : hi! from client; 12345 To cient : his, hadda.

Experiment No. Date Name of the Experiment Page No. et (c) from (i)= t; count ++; ? ? conice (court 1=0). Re-Cizo; ichoder; i++) ¿ PFC" for mouter vid", i+1); for GEO; icnodus; i++) ¿ per " node vid via vid dictance vid" ittl + []): Crambilty ++ (i) to dist (i)); bt C .. (U ..):

Output CC P2. C -0 P2 . 1 P2

enter the no of nodes: 3
center the cost matrix: 0 10 4
center the cost matrix: 0 0 3

node b 1 via 1 distance 0
node 2 via 3 distance 7
node 3 via 3 distance 4
tor router 2

node 1 via 3 distance 7 node 2 via 2 distance o node 3 via 3 distance o

node 1 via 1 distance 21
node 2 via 2 distance 3
node 2 via 3 distance 3

F3	corite a prog to implement error.
	detection of correction concept using
	check seen & having code
	Hinclude Cortalions
7	uneigned sields [10]:
	anigned short cerebium ().
H	fint is sem to.
	pecticuter the IP head into in 16 bit words
	Bo-Ci=0; ikg; i++)
	3 pt c " field y d" ; + 1);
	et ("4.x" 4fic (2[i]);
	sum = sum + Consigned short fields [7]);
	while Creem > 7(6)
	5 m = sen + 0× FFFF) + (5 an) > (6) ; }
	sun=54m;
	refer a Comigned short) sen;
	int main()
	guesigned short request2, secult2;
	result 1 = check sieme);
	pfc" conquited checkgam at sender.
	4.02", as sesult +2);
	reque (+2 = clect sunc);
	ptc" computed dietermat receivet
	1,4" result 2);
	1,4 Cural+ 1= = secret 3) bt (1, No 62202 101)
	lesses pe c" on no! extor detected chandras

reconnect. # include estalions void maines Sint date [10]; int data_atrectiod c, c1, c2, c3, i; pf (" sender"); sf ("-1.d 1.d 1.d 1.d", &detato], &data[1] +data[2], & +data[4]); data [6] 2 data[0] = ^ data[2] ^ data[4] data[1] - data[0] 1 data[1] 1 data[4]: data [3] = data [0] 1 data [1] 1 data[2); pf (" Encoded deeta '); for (i=0; ic 7; i++) pf ("f, d", & data[i]); . Pf (" receiver) & for(Ci =0; ic 7; 1++) Sf ("1.d", ldatgat rec [i]); c1=dataxtrec(6)^dataatrec(4) data-atrec (2) 1 data-cet sec [0]: C2 = data-cetree (5) 1 data-atre c [47 1 data-atrec [1] 1 data-at re [0]; () 2 data-atrec[]) 1 data-at rec[2]1 data-afrec [1] ^ data- atrac (0]; C= C3* 4+ C545+C1; p&C' syndrome bits: 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1. if (c= -co) E pf C''No error anile transmittion of late(1): ?

me of the Experiment else 2 bt con server borition: 4-8" pt (" data sent"); Brci=0; ica; i++) pt (" 1-d" & ate (i)): pf ("data seccived"); for (1=0: ic7: i++). PfC"-1. d", Lata-at sccv [i]); bt Cil Correct wed is: 11); if (data at rec[7-c]==0) data-afrec (7-07=1; 6126 data-atrec[7-0]=0; for (i=0; ica; i++) Pf C" y.d", data-atrac (i7); 37

O cet tri ce check sum c · / chectsum. enter the En hader into in 16-6it Field 2: 1123 field 2: 11415 field 3 . 85 ba field 4: 3rab Field F: 334cf field 6: even field 2: was 6 field 8: 876] Field 9: 3214 computed checksum at sunder \$26 after IA heade - into in 6-6:+ 40121 423 Freld 1: 1145 field 3- 8606 field 4: 356a Compyted clart seem stelds: 34et at receiver 3 ac? eteld 6: 8484 2:11d 7: 4d3V £1168: fre (d 5:

output d-o haming ce haming.c · (hanning sender: 1010 Encoded Dater: 1010010 Receiver: (110001 syndrome bits: 011 cxxox position; 6 sent: 1010010 Data received: 1110101 Date

Page No. Implement a simple multicont routing mehen sm Hinclade Csys 14 ypes hs Hincrede csys (seacher, h) Hinclade anetone + line h) Hinclude c carpalineths Hinclude Ctime . 4) # includec string. 4) # include < stdio.4) It include a stalib. h> # inc (cede ccenistal- 4) It de line Cucco-port 12345 # define collo-group "225.00-37" int main (int args, char to a rgv())) struct sockaddr-in addr; inf ta, ent; struct ip-Mrcq mrq; char message = 11 Ruce - CSE !!); If (Cfd=socket CAF_INET SUCE DERAMO) I person (usucket"): exit (1); menset Chadder, O, sizeod cadde)): addr. sinfamily = AF INET; addr-sin-addr-s-addr-snet-add-(+ee10-gro order sin-port = htors (hello-port) chandra's

while (1) g if Csendto CPd, message, sizeos conessagejo, citract sock addr x)4 addr cize (adda))(0) s perrorell send to 11) exit (1):3 (leepcu:) retern (0)] Receiver.c It include csys/typesh> #inecude csys 1socket-h) Findlade carpalinet. h) #inc (ade C nefiret lin. h) # include (time. h) thinclude (stringih) #include estadio.h) #include Cs+dlib.h> # define hello-port 12345 #define cecco-group 11225.0.0.3711 # deline Msgbuffsize 25 int main (int arga, char * *arg V[]) Estruct sock addr in addr; lat td & nbytes, adder len: struct ip-more more

Page No. char meg but [meg butsize]: u-int yes=1; id CC 1 d = 1 xx k de + CAP - INET, S OCK - DERAM, O) (0) Spersor (" soctet"); (xi+(1): 3 if Cset sockop+ Cfd, sol-socket, so-resulader, Lycs rize of cyes)/20) perror (" reaceging ADDR failed "); exiter); 3 nenget Chadde, o, size of cadde); addresinfamily = AF_INET addr. sin-addr. s-addr = htone (INADDR ANY); addr. sin-port = htors (helco-port); is (bind Cfd, Cstreet sockadder *) + adder size (add -)) <0) Spersor ("bind"). exi+(1); 3 moreg. imr. masti addr -s-addr-inet-addr Che (10-group); moreg. ima_interferec. 5-adder = hotoal (INADDR AMP) if Csetsock opt CFD, IPPROTO-IP, IP-ADD. MEMBER SHETP, Amreg size of (mreg)) <0) f person ("Socket pop+"). 6x1+(1).

out put ce sender.c - (a.out out put cc receiver.c · / ce. oct RUCE-CSE puce - cse. Puce - ese RUCE-CSE Puce - Cse Puce -CS€

Esperiment No. 5 Name of the Experiment was to implement concurrent char xaserver dead allows werent logged in users to communicate one oite other. chient.c Hindude esys (typesh) # include csys (socted. h) #indude (STS (Stat- 4) #include cogsnetines (in. 9) Hinclude a stalib. h) # include canista. h) Hindude (+ Cafl. 9) # include carpaline fin) void str-cli CFILE * FP, int socked) (int bufsize = 1024, cont; cher & buffer =malloc (64+512e); while Cofgetschuffer, bufsize, fp)! - NULL rend Cs ocked buffer, sized auffer), o); it ((count = recv (coctfd, but fer, buffitsol) 2) [fputs (bufser, stdocet); PF(" COF"); } int main (int arge, char * argv (7) & Int create-socket; Straid 100 tadde in address, 14 (Ccreate , octed - cocket CAFINET, SOCK. STREAM OL) SO)

and of the Experiment Date Page No. of cultre jocket was created") address . I'm formity AF INET adression-port=htons cisoois at plon (AT INET arg v (1) Anddress (in add) Cropped Corecete - socket, csocket sockadors Eadererst De of Caddress 120) of c" the connection was accepted with the conce 1/11 darge [1]); else Af CII EXXDE IN CONNECTO IN!); str_cli (Stain create-sacket); metern classe (create - socket). Gerver. C # include CS+ dio. h) Finelade coupeltypes.42 # include escel sacketits # incude Lsys (steet h) #in coude < nextine+/in-h> Hinclade efections #ine rude carpaline +h> void streecholint connect File Afp) Kint M, 6 ups: 20= 1024; char +6 uffer = malloc (buts 120),

Page No. agaile CCn= secu (conneld, butfer, butsize, o)) > speed (beefler, stdoug); 28 Cofgets Counter, butsize, Sp) 1 = NUCC) send (conneld, butfer, n. o); int main() gint count, listendel, conned, adder len add-le-2, to, hid, redd-len3; struct sockader-in addr, cli-addr; I (Clistente = Socket CAE - INET, SOCK-STREAM, Old) 1 ps (11the sor but was created 11). } addr. sin-family = AF-INET; addr. sin-addr. s-addr = INADDR - ANY; addr. Sin port - htoricisooi); of cor the address before bind it - Inter ine + rte a Caddress. Sin-address. risten Clistent Q. 31; of (" server is lostening (n"); gets octname (listenfel, Cs to cect cockaddit) 4 add rest, daddalene 3). as ellethe server is local address is -& port old (n", inct nota Calder single whors caller sin-ports); w 41 (cc1) Saddylen - sizeof Estruct subaddy-in). Conside accept (lister of a correct chandras addit 4 cli-address, eadd-(e-)

Name of the Experiment Page No. addr len 2 = sizeof Cstruct coct ceder_in); int i = get peername Econofd, estruct sockad & cli add ress, fadder len). of contract of is connected on port 1.2 m" inet -ntoaccii-addr.sin-ad ento ns ((i- addr. (in-port)); if (cepid == forE())==0) 5 pt (" inside child In"). close (listenta); ex- echo (connid, stdin). ex+(0); Close (conned); } retur (0);

output. ce cliente c -0 Cli · (cii 127.0.0.1 socket successfully created connected to the server. enter the string; hii from server: hello enter the string: 12345 from server; 2# 94,2th enter the string: hi collo how cere y

server. c -0 serv output; cc · 1 seru societ successfully created ... socket successfully binded - -server listening server accept the client from client : wii to client: hello 400 m client: 12345 to Clim+: 2#51,4x Loon client: his hello Enow are yold to client:

ce serverse -0 serv . (serv the socker was created Binding socket Iterative server is wistering. the client 127, 0.0.1 is connected 1152 Frag no client 1: socket created en connectées n acepted wite server wii wii hello Lello Clantz: socket was created The connection accepted with server chii hello 1234 how are you?

ODP - iterative program client.c It include esys (socket. h) # include crys (teppep.4) # include < netinet/in.h) void str-cli CFILE * FP, int socked (struct sockaddet) 4 serv address intserve int buf size = 1024, cont; clar * buffer - malloc (bufsize); int add-len = gircof (stract sockalaria) while Charler, buffer, buffer, buffer, buffer, pd) != NULL) S = + (Cup cont = reculerom Csockla buffer bulster, O, NUCL, NUCC)201) 1 Sputt (butter, stdout) p+ (" FOF"); ? int main (int arge, char + argy []) sint socked; stract sockdaderin nerv-addr: is Cooked I socked CAF - INET, Sock DERAND por contract conscreated) che cli (etdin, cocked estact sockador) deservaddress, sizeal Crery address); ex:4(0).

out put ce perver. c -0 serv V152) = The rocket was created address before bind 0.0.0.0. pinding socket cc client, c -0 Cheret -1ciin+ 127.0.0.1 The socket was created nii (in) wello cello 123 123

Experiment No	Date Page No.
executo using cocket system	omend colls.
client.c	
# include 254dio. h)	
# inc (cede 2 rys (sfat, 97)	
Thinclade extentle as	int socked
gint buffer = malloc Con char + buffer = malloc Con	4-7
onice (Agets (Goutfer, Goutsize 1) if ((conf = reculsoctAd)	46) 7 = MOCO
5 1 t ((CONT = 260 00 C) C140	
bt ((Eo E());	
int main Cint argc, char	*argve7)
stract sock addr in ad	
if cocket - cocket - cocket	
pac" The socked was co	
ine+-pton CAFINET, arguers	Caddress. sinade
	chandra's

Experiment No. Name of the Experiment Page No. id Cronnect (create - socket sizes of cader) ==0) pot ("connection accepted by rerver"); 2710 pt [" @ eror in connect ()"1: str_cli (stolin, create_ rocket): refer close (create-socket); server. c erin clude < 145 (types. 4) # include a sys (socket. h) It in (cude constinct (in.h) # include carpalinet. h) void remote_command (Ent conneld, int port) 9 int 1, 6 uf size = 1024; (near * 64 ford - malloc (6 atsize); gestile Ca = recu (confd, outser, butsize, a))0) & send (conned, buffer, n, o); pec "port: -r.din's port); cystem (buffer); 3 ? while (nco); chandra's

output: ce elient. c -0 cli · le 11 127.0.0.1 The socket was coreated The connection was accepted coite the server 127-0.0.1 els le -l CE servere -0 serv - (seru The socket was created Binding soctet server is listeing The Client 127.0.0.1 is connected Inside child port: (0175 total -157 -roxroxrox 1 ab 12960 Dan Cli - xoxxoxxox 1 db 13000 Jan Serv -roproxrox 1 ces 14211 Dan output Experiment No. Name of the Experiment Page No. pf (" enter another prime no"); c+ C11 -1.0", fq); flag = prime (q-); if (flag==011p==q) & pf (" wrong input") getchar(); exit CU; 3 pt (1/2 nter mig"); effugh (ctdin) If c"-1.5" fungg); for ci=o; magtij (= NULC; i++) msi] - msq[i]. N= D*d-+= (P-1) *(G-1); (e-(); pf c'i possible values of e f d are"); tor (1=0; ici-1; i++): Pf (" Y. d (+ y. x. 1d", e(i), d(i)); enerypt(): deery p+(); ? in! int prime (dong int pr) 8 int 1; := Egra (pr); for (i=2; ici; i++) S. T. E (P 8 1. 1= =0) xctura 0; } chandra's

Name of the Experiment Page No. return 1; ? void ((C) 7 int 10=0; for (1=2; ic+; i++) (0==i, v+) 4; continue; flag= prime (i); it (flag==144i! = P 68i! = 9) 1 = [=] = ?! plag = callerer) if (9 kg 20) & d[E]=flag: +++; if (6== 99) break; song int collary int x) & Good gut Fil. (1) 11 mag 8 6= 6+A-11 (KYX ==0) refer (E(x); ?] void encrypt() E lang int pt /Ct/tey= eto] E, lanj i=0; len= Stolen (onsq); vanile Cil=1en) { put=mcil; p+=p+-

Experiment No. Name of the Experiment Page No. void decrypt () glong int pt, ct, key = deal, t, leet; i=0: while Center != -1) & c+=+empcizi E=1: bt= Ffde, weil= b+; i++3 m (i) = -1; of (" the damy pt ones) is "); for (i=0; m(i) 1=-1; i++) pt 6-1. c", m(ci)) ? Deffic-Collaman-C # include egtelians long int power cinta, int 6, int moll & long long inf t; if (b==1) return ce; += power(a, 6/2, mod); if (6-1.2 ==0) return (+ # +)+1. mod ... else retern (CC +x +1 1/2 mod) # a) 1. mod)? Doce long long int calculate try (inta inta inta) E return power (a, x, n); } int maine) { int n, g, x, a, g, b; pos (" enter vooler of notg"); St (" 1. d 4. d", En, 2 9)= chandra's

periment No. ame of the Experiment	Date Page No.
Toporenter the value of a for 29+	pe-50, (1);
St [" >,d", (x);	
To = propercy, e,n);	
pect enter decoration of my For and	person"!
1 (" Y.d" & y);	
6= po ser (g, g, n);	
ps colley for the for 25th person is	=4. (d' po == (6,
of Cutey for the end person is=1.	12 power Cay
resera o;	

output: cc RSA.c -lm · la.out erter first prime number 12 enter another prime number enter message: 88 possible vælcees of efd are 3 . 602 13 37 19 59 23 2 29 149 31 37 13 ui 121 43 67 (4) 47 The enerypted mag is: 22 the de crypted NS9 65:88

output ce deffice hellman.c · 100.000 enter tee value of ndg:23 2 der value of x for 25t perso; 6 the value of y for and purson's key for first person 12 Key for second person; 12

PART-B

1) Scheep on I fee sor. 3 with

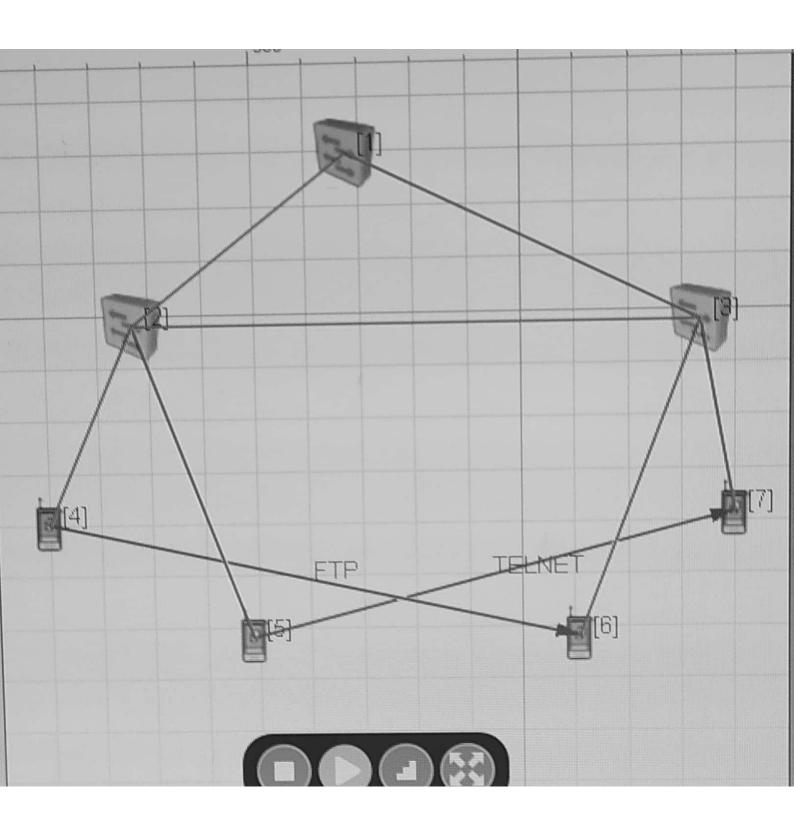
a) Gub 6) switch O wir ar chy of switch.

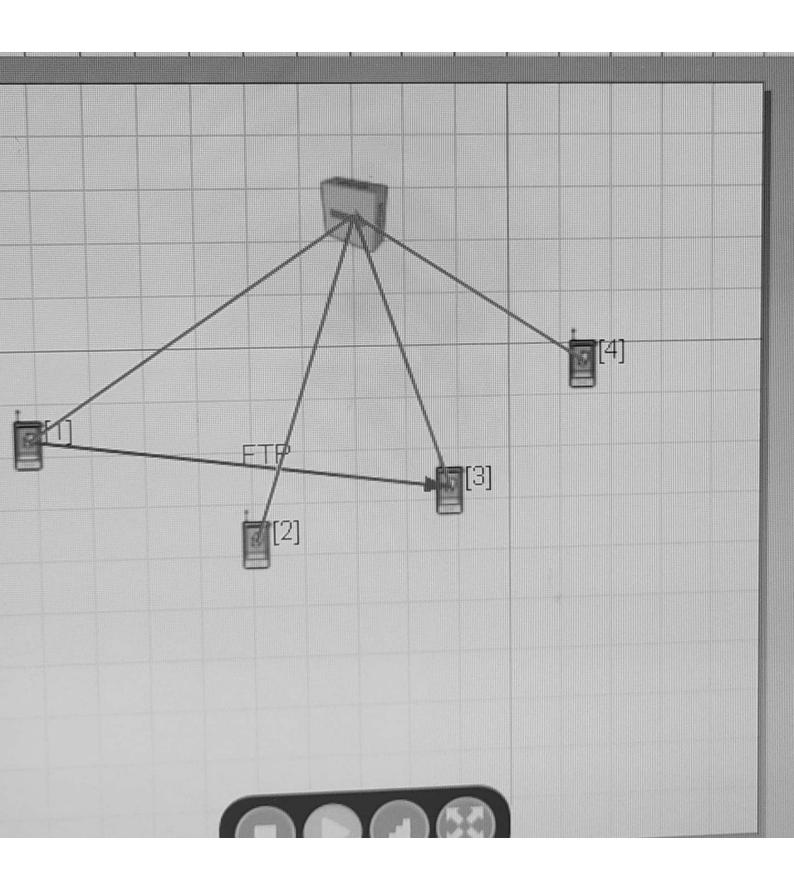
Apply the ftp there application

blo nods. Vary the number of model.

Vary the bandwidth, qualifity and

observe the parter drop probability





setup a soire less susor methors

with at least two devices co-ordinators

e nodel provide constant pit rate(CPE)

veriant bit rate (VPR) applicato 610

several nodes Increase the no. of

ro-ordinators of nodes intersame area?

observe the performance of plays inches of

MAC layers.

