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LAB REPORT on

COMPUTER NETWORKS

Submitted by

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in partial fulfillment for the award of the degree of BACHELOR OF ENGINEERING
in
COMPUTER SCIENCE AND ENGINEERING



B.M.S. COLLEGE OF ENGINEERING
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B. M. S. College of Engineering, Bull Temple Road, Bangalore 560019

(Affiliated To Visvesvaraya Technological University, Belgaum)

Department of Computer Science and Engineering



CERTIFICATE

This is to certify that the Lab work entitled "LAB COURSE COMPUTER NETWORKS" carried out by MUKESH KUMAR N V (1BM20CS088), who is bonafide student of B. M. S. College of Engineering. It is in partial fulfillment for the award of Bachelor of Engineering in Computer Science and Engineering of the Visvesvaraya Technological University, Belgaum during the year 2022. The Lab report has been approved as it satisfies the academic requirements in respect of a Computer Networks - (20CS5PCCON) work prescribed for the said degree.

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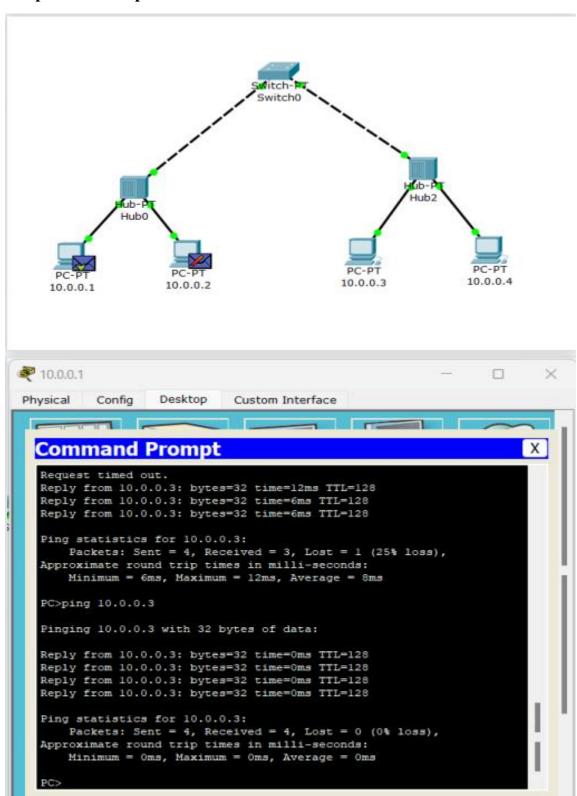
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Cycle 1 Experiment No 1

Expt-1. Afin To create a lepology & strulate sending a stripe To Jean source to destration using harb & switch as comeching devices Topology: Star topology Procedure: - End duries are connected to the - The hups are Poter Connected Va a set. - Convections between all of them are. Checked if It is working. - They are checked by playing a newage between & end deve as. - Once verified, a staple Pou is sent 1. transmitter blue a roune & a destination Vesult: The transmitting of Pours were succeeped between the source & destinations Consider of all the consider of a network, when a source transport a PDV to kub. Sultibur 92 Kally breadcast a PDU to the. remaining connected devices. The devices distination, suplies to act with a menage to Confirm the destination mae addresses

Ince the connection is established, there is weasing between the saurce and. Leskinskin via the kutch. - If a secesiver host sont connected to a Internetwork a message camet be.
Prized le hence response will be timed out Hib. 100.0 Switch. 10.0.00 10.00.3 \$0.00. H

Snapshot of Output

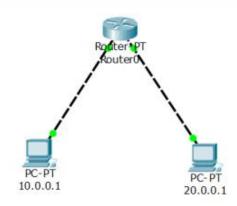


Am: - Configuring IP address to rarters in Packet traver. Explore plug responses destino Unreachable, suply, request, Kned out Procedure: - End duries one PC's which are connected to a Pouter -> IP addressed Configured for the end devices. - Configure IP address for both the Interfaces of grouter - It addresses are Configed using Commen One Interpre --> Gateway addrosses & Configured. - End clares are plaged to test the Connection. ropology: Star topology Perult Succentrally plaged and devices us through a souter Pinging 20.0.0.2 with 32 bytes of clata: Peply from 20002: bytes = 32 the= One TIL = 255 Reply Just 20.0.0.2 : bytes = 32 Hors = Chus FIL = 255 Reply from 2000.2: bytes = 32 time = One 772 =255 20.0.0.2 · bytes =

Fing Statistics for 20.0.02: Packato: Sent = 4, Received = 4, Lost = 0 (0/2055) Approximate secund hip times in multi-seconds: Minimum = One, Mansmen = On, Average = One. -> Pokorface. Observation 5 20.0.02. · Feo 10-0.0.1 20.0.0.1 Observation Succentually when we configure both end duties and. Itouter will appropriate ip addresses. and by configuring subnet mask of the pres of souter, as 255.000 and gateway 9 PCO ils set as 10.0.0.2. which is of. Faolo Integlace. and & Jollowed by save for PCI, we could succesfully PP-9 the end devices. Timed out: - If IP address of end duras or gataway & not longiqued proporty, then we get neguest Hand out

Pfiging 20.0.0.3 with 32 tytes of clata: Request Kned out Prog statistice for 20.00.3 Packet: Sent = 4, Received = 0, Lost = 4 (100% Loss)

Snapshot of Output



```
PC>ping 20.0.0.1

Pinging 20.0.0.1 with 32 bytes of data:

Reply from 10.0.0.2: Destination host unreachable.

Ping statistics for 20.0.0.1:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

```
PC>ping 20.0.0.1

Pinging 20.0.0.1 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 20.0.0.1:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

```
PC>ping 20.0.0.1

Pinging 20.0.0.1 with 32 bytes of data:

Reply from 20.0.0.1: bytes=32 time=6ms TTL=127

Reply from 20.0.0.1: bytes=32 time=0ms TTL=127

Reply from 20.0.0.1: bytes=32 time=1ms TTL=127

Reply from 20.0.0.1: bytes=32 time=0ms TTL=127

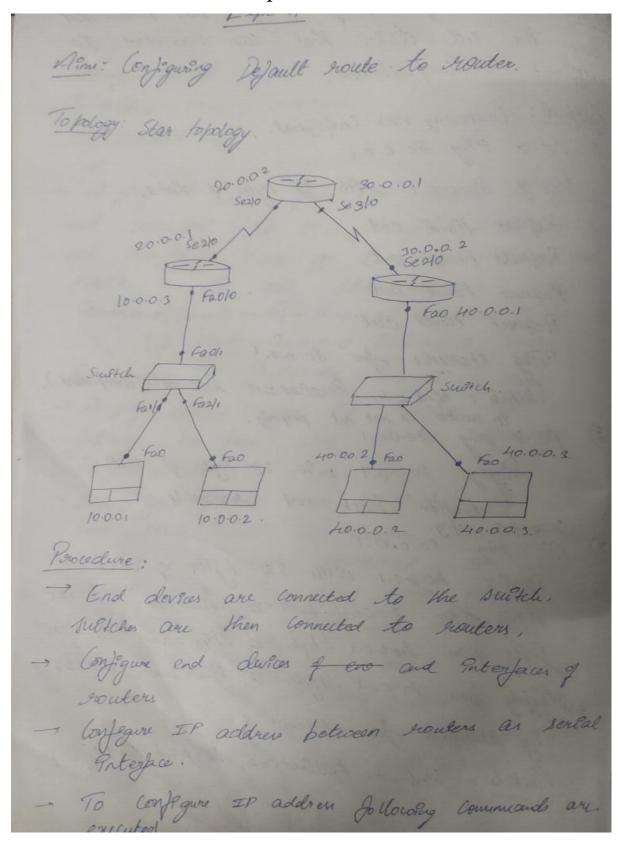
Ping statistics for 20.0.0.1:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 6ms, Average = 1ms

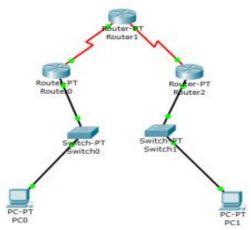
PC>
```



Config terminal Interjace Se 20 5/ addrew 10.0.0.2 255.0.0.0 no shutolown exet , configure gateway address of the end devoces with Corrected Interface of the nouter. -> Inorder to establish default route across the nouters, ip noute is configured using the Comman % soute 0.0.00 0.0.0.0 20.0.0.2 Observation -> A play closes of cross the Enterprise until a gateway has been sent to the Connected Enterpail/rader -> Ence gateway has been set, the ping will not wor crow over to another nouter as the nouter are not connected to other, networks and they won't know which droute to take ove where the next hop of the stand & lo be olone - Default noute is configured between the houters, where if noute and subnet mark. B not specified only Na Interpre of connected houter. - Later project connections between all the nouters and and devere

A succeptule play message has been sent over the End divines that are lemmeted to alfferent nactes/ networks. Output: i) Crateway not configured. PC > PRy 20.0.0.1 Paging 20.0.0.1 With 32 bytes of Ada Request Fred out Request 18mes out Request Homes out Tag Statistia for 200.0.1 Packets: Bent = 4, Recelled = Or lost = 4, (1001- loss) 1) IP rouse not Configured R> Play 30.001 Plagery 30.0.01 with \$2 bytes of state Deshirchen host unregelieble 80 Succesfull steply PC > Play 40 0.0.1 progreg 40.0.01 with 32 bytes of date Refly from Lio. 0.0.1; kytos = 32, Hone = 8 mm, TTL = 125 Reply from Local phylos = 22, Home = Ima, TTL = 128 Pag stakeska from Local Packets, sent = 4, Received = 4, Last = 0 (0%

Snapshot of Output



```
PC>ping 30.0.0.1

Pinging 30.0.0.1 with 32 bytes of data:

Request timed out.

Request timed out.

Request timed out.

Request timed out.

Ping statistics for 30.0.0.1:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

PC>
```

```
Packet Tracer PC Command Line 1.0
PC>ping 10.0.0.1

Pinging 10.0.0.1 with 32 bytes of data:

Reply from 40.0.0.1: Destination host unreachable.

Ping statistics for 10.0.0.1:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

PC>
```

```
PC>ping 40.0.0.2

Pinging 40.0.0.2 with 32 bytes of data:

Reply from 40.0.0.2: bytes=32 time=14ms TTL=125

Reply from 40.0.0.2: bytes=32 time=11ms TTL=125

Reply from 40.0.0.2: bytes=32 time=11ms TTL=125

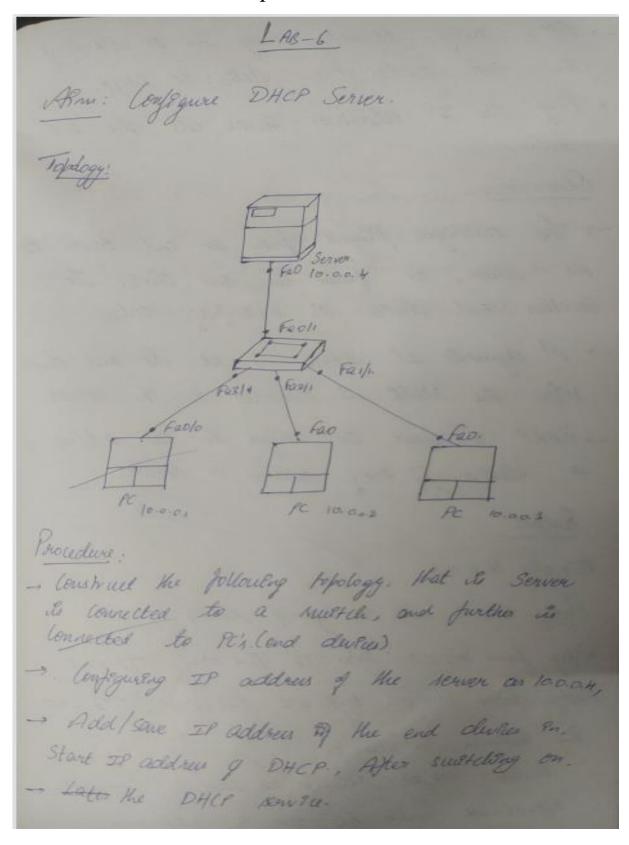
Reply from 40.0.0.2: bytes=32 time=11ms TTL=125

Ping statistics for 40.0.0.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

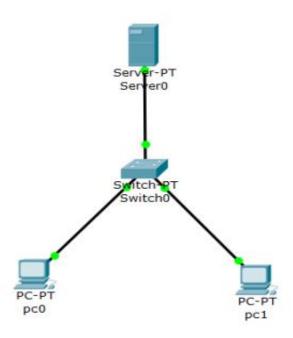
Minimum = 11ms, Maximum = 14ms, Average = 11ms
```

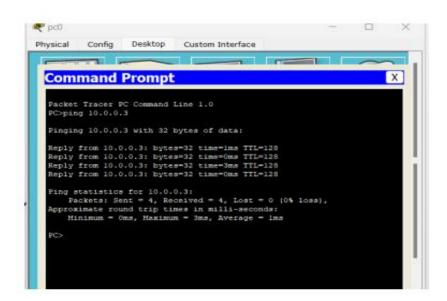


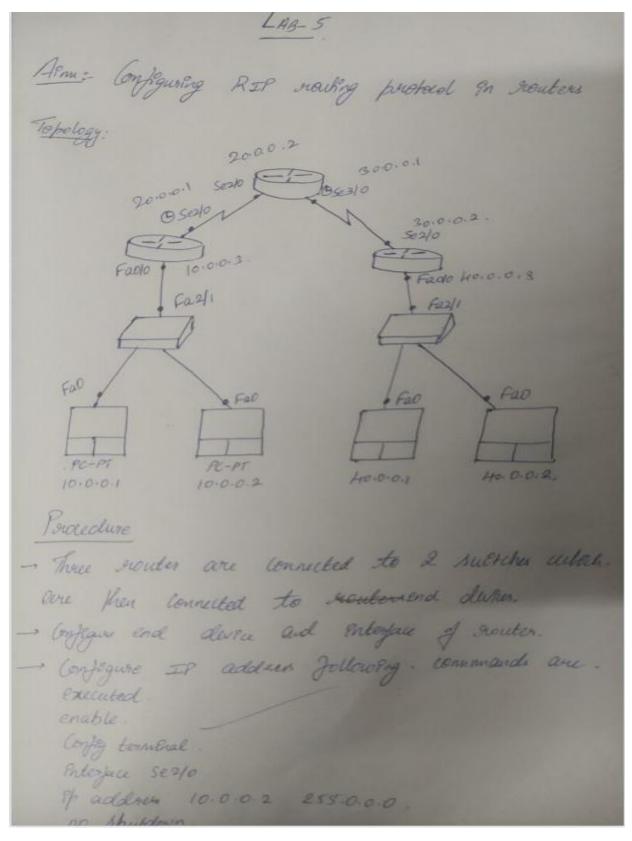
- After surge addiess, change the It address of the end dwares from state to DHCP. - My the IP addresses across all the end dutou. Observation: --> The morrages proged from an end dever to the sever, or from an end duke to Quether end devea to succesfully sent--> A dyranic It address is set to end dura when the PHCP is Prateated in the server. - RARP Is wed to augu the IP address of a deven of MAC address & Known. Rutput PC7 plag 10.0.0.3 Higging 100.03 with 32 bytes of data: Righly from 10.0.0.3: bytes = 32 18ne = 1ms + TL = 128 Reply from 10.0.0.3 byks = 32 180 = 000 TTL = 125 Pag Statistica for 10.00.3 Packet : Sent =4, Leceroed =4, Lost =0 (04-Lon),

Manan = Ours, Maxanum = 4mm. Average = 1 mm. 2) SERVER > ping 10.0.0.1 Phylog 10.0.0.1 with 82 bytes of data. Refly from 10.0.0.1: bytes = 32 Hmc = Oms TTL = 128 Rifly Joen 10.0.0.1: byks = 32 Kne = Oms TTZ = 128 Reply from 10.0.0.1: bytes = 32 time = One TTL = 128 Reply from 10.0.0.1 : bytes = 32 thre = Ones TTL = 128. Ping statistics Partets: set = 4, Received = 4, Lost =0 (01- lon)

Snapshot of Output







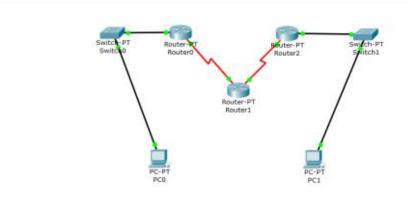
- Configure gateway address of end devices with connected interface of moutes - Inordo to Configure RIP protocal away the Gouter Serial RE Connection, we sun following commands. # nouter sup # Network 20.0.0.0 # return 30.0.0.0 - For every Delal DE Connection, to Configure RIP were olifered clock rate. concepsulation Per clack rate 64,000. - A pay has been sent from one end olivere to other network and device. Observation: 7 plag 40.00,1 Riply from 40.0.01 Will 32 bytes of data Refly from 40.0.0.1 1 bytes = 32 the = 2ms TTL = 125 Refly from 400.0.1: bytes = 32 Kne = 2ms TTL = 125 Reply from 40,001: bytes = 32 Kme = 2mm TTL = 125 Reply from hocol: byks = 32 the = 2ms TFL = 125

Parkets: sett = 4 , Received = 4; Lost = 0 (0/ 1911) Approximate secund HT/2 80 millimeterals Maximum = Ross, Maximum = 40 nos. Average = 10mi Show his provide has been established. If maile does not have to be set for each nouse. Before RIP was set for each see Pay 10.0.01 - 40.0.01: Destruction has uncachable. Sofore RIP Pray 10.x - 20.x Request these out Only on correctly configuring gotocopy and. property received property Kosult: (Railing Reformation Probable) RII is evaluated to retweek correctly Even on proper connection and configuration. The form packet of first inter network pay to Find out as swettler have not learnt retions yet

RIP-Routing Information Protocol:
Es dynamic snowing protocol that uses hop.

Went as a neter to find best path between Source and deskinshon-

Snapshot of Output



```
PC>ping 40.0.0.2

Pinging 40.0.0.2 with 32 bytes of data:

Reply from 10.0.0.2: Destination host unreachable.

Reply from 10.0.0.2: Destination host unreachable.

Reply from 10.0.0.2: Destination host unreachable.

Request timed out.

Ping statistics for 40.0.0.2:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

```
PC>ping 20.0.0.2

Pinging 20.0.0.2 with 32 bytes of data:

Request timed out.

Request timed out.

Request timed out.

Request timed out.

Ping statistics for 20.0.0.2:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

```
PC>ping 40.0.0.2

Pinging 40.0.0.2 with 32 bytes of data:

Reply from 40.0.0.2: bytes=32 time=2ms TTL=125

Reply from 40.0.0.2: bytes=32 time=12ms TTL=125

Reply from 40.0.0.2: bytes=32 time=2ms TTL=125

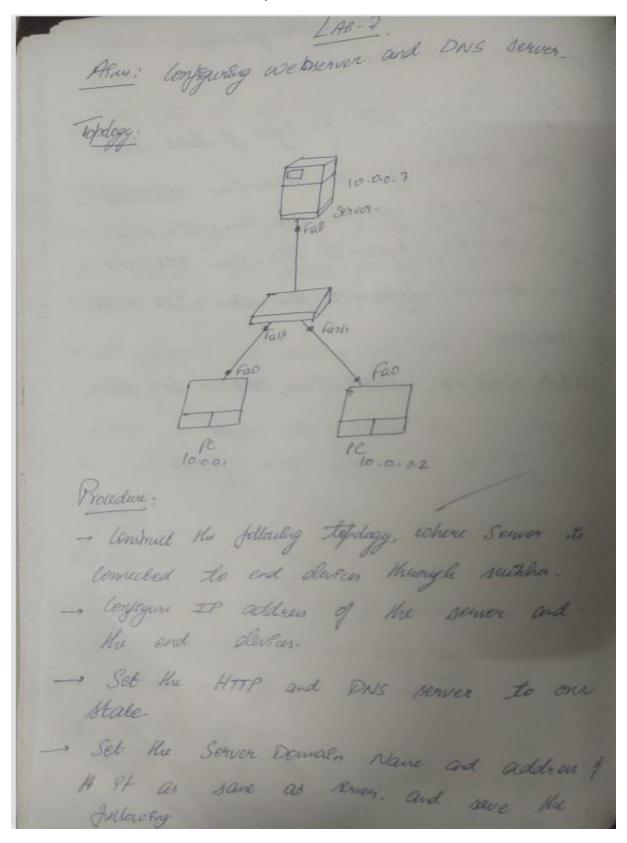
Reply from 40.0.0.2: bytes=32 time=2ms TTL=125

Ping statistics for 40.0.0.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

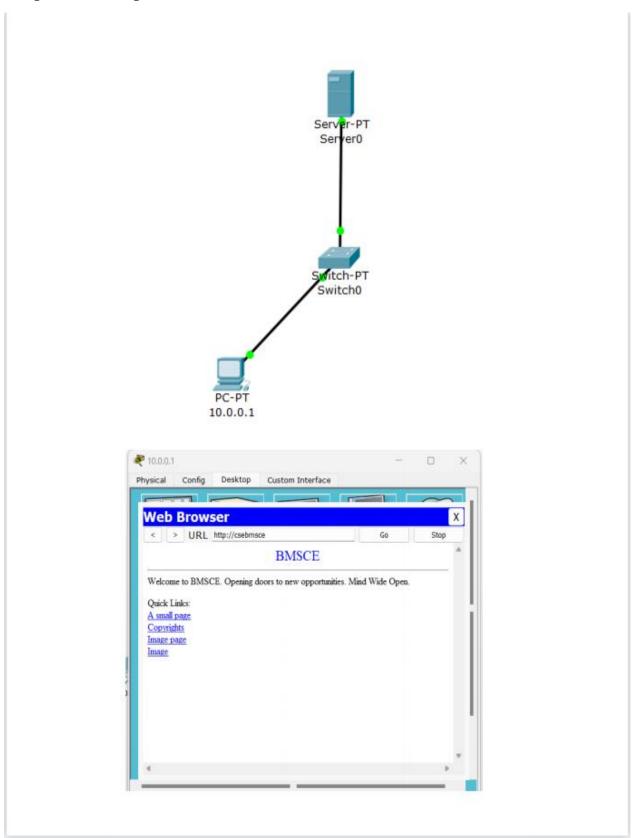
Approximate round trip times in milli-seconds:

Minimum = 2ms, Maximum = 12ms, Average = 7ms
```



- From one of the end duties, check by the Webserver & suachable from the and devices by enturing URL. Observation: - Web browser modelle is opened in the end. derice and the set domain name unwwomsee come is entered. - If the system server hasn't been configured. properly, ser set DNS server and default gateway. the 'Host Unresolved' is shown. - It configured property. The page of Caso Pacial Trales its opened.

Snapshot of Output



Cycle 2
Experiment No 7

```
I wrote a program, for error eletection was
CRC 16-686.
  Suport gava uso! " ?
   Class CHC-algo & public static void main (String arg. (2)) .
        Scanner Sc = new Scanner (System En);
        System out prenter ("Enter no. ")
          Put n = sc. next Int ();
        Pot [] data = new Pot In +167;
        Pat [ ] new = new Port [n]5
    for CPAt 8=0; icn +16; 1++) &
        data (1) = (1>n) 10: De next Int (2)
          of (9(n)
sun[13 = data[17]
    for CPat 1= 0; Pan; P++) {
        1) (data [1] ]= 1)
Continue;
        for CPH 9=0; 9x17; f++){
          data (i+j) = data (i+j) ~ deusor(j)
```

```
for CPAT P=0 ; K new ung
      elata [17 = Rem [17;
 System out prendla ();
  for ( Pat 1=0; Re data length; 1++)
       Lystow out friendly Colata [17] + " ");
  clata [10] =15
  for CPut 9=0; 1<n; F#+) &.
       of (data con)=1)
             Canking;
     For C Pat g = 0; gx 17; g++)
              clate (1+1) = deta (1+1) ^ dissor () ] 3
 System out prentla ()
 for Cent t=0 ; it data length ; i++)
      Lystem-out-prent (datales+" ");
Outsut.
Enter mepage to be paved: 3.
 1110110000001100011
 0010000000000000000
```

Output - Screen shot

```
Enter the length of Data Frame:

3
Enter the Message:
1 0 1
Data to be transmitted:
1 0 1 0 1 0 1 0 0 0 1 0 1 0 0 1 0 1
Enter the Reveived Data:
1 0 1 0 1 0 0 1 0 0 1 0 1 0 0 0 0 0
error in data
PS C:\Users\mknv7\OneDrive\Desktop\5th Sem\Computer Network>

[]
```

```
Wirth a program for destance vector sounce
algorithm to And militable fath for transmension
   Class DVR?
       Port graph (3)
     public state wild main ( string ary 10) &
       Systemous preath Conter nuter of edges &
         C= SC · NEXTINE();
      Systemout frontin ("Enter number of vertice");

V = SC-next Int();
       for (Port 1=0) FX V3 8++)
           Jor C PARJ = 0 15 EV 25 + +) {
                g (1==g)
graph(1) (3 = 0)
                 graph (1) (1) = 9219)
   Stolle vord update table (Int source) &
    for (Put 9=0, P(V; +++) 1
          of (graph ( source)[1] 1= 9999) 1
           Put dut = grafe [ sources 150;
for Cint j=0; Jev; 5++) {
                  Enterolat = metrosto
                 1 (Va 1: 3177 = sounce)
              1) ( dS++ Pater 22+ ( 2+ 1 feerce ) (7) )
```

```
It [saxa][]=
        Vralsameng )=1)
State void update tales () ?
   900 x=0;
  for Cent 1=0; (24 x y; +++) {
     update table (15)
       J ( K== V)
 Nord print_table() &
    for CPA+ 9=0; 7(V) 9++) {
       for CPA+ 1°=0; gevij++)(
        System out french ("DIS++7+6116/7+" ")
      system out preather or
                 Rowling tables are
```

Output – Screen shot

```
Please enter the number of Vertices:
Please enter the number of Edges:
Please enter data for Edge 1:
Source: 1
Destination: 2
Cost: 3
Please enter data for Edge 2:
Source: 2
Destination: 4
Cost: 6
Please enter data for Edge 3:
Source: 3
Destination: 5
Cost: 4
Please enter data for Edge 4:
Source: 1
Destination: 4
Cost: 8
Please enter data for Edge 5:
Source: 2
Destination: 5
Cost: 5
Please enter data for Edge 6:
Source: 4
```

```
Destination: 5
Cost: 5
Please enter data for Edge 6:
Source: 4
Destination: 5
Cost: 2

The initial Routing Tables are:
Dist: 8    Dist: 3    Dist: 12    Dist: 8    Dist: 8
Dist: 3    Dist: 9    Dist: 6    Dist: 5
Dist: 12    Dist: 9    Dist: 6    Dist: 4
Dist: 8    Dist: 5    Dist: 4    Dist: 2
Dist: 8    Dist: 5   Dist: 4   Dist: 2
Please enter the Source Node for the edge whose cost has changed: 4
Please enter the new cost: 7

The new Routing Tables are:
Dist: 8    Dist: 3   Dist: 9   Dist: 8   Dist: 8
Dist: 3   Dist: 9   Dist: 9   Dist: 7   Dist: 8
Dist: 3   Dist: 9   Dist: 9   Dist: 6   Dist: 4
Dist: 8   Dist: 7   Dist: 6   Dist: 4
Dist: 8   Dist: 7   Dist: 6   Dist: 8
Dist: 8   Dist: 7   Dist: 6   Dist: 9
Dist: 8   Dist: 5   Dist: 4   Dist: 2   Dist: 9
Dist: 8   Dist: 5   Dist: 4   Dist: 2   Dist: 9
```

```
Implement diskstro's algorithm topology.

Shortest bath for a green topology.
  #Portude (stato)
   Votal agricultani.
    9nt (210)(10); n. 1969
    Votal mounds
     Pot 1995
      for (1=1) P(=n) 7++) (
         Ar ( g=1) j (=n) j++) {
            Kay ("Had", Schilles))
             JC(D(J)==0
    Vord dighthas O.d.
      gor ( f=1; fxon = f++)
           ally) = clampy;
      Je ( f=1 ; f(=n) (++)
         V15070 = 07
       colle (count = 0) }
         for ( = 1) (2= n) (++)
            1) (d8+93+nEn & WEG3 = 1)
                min = alt 172
```

```
West ++3
for (9=1) 3 (=n) 5++)
   of (min + clusgo x distyos 82 mily-31=+)
     ollet (j) = men + cludgo;
for (j=1 3 5 2= n 3 5 ++)
    preng (" ofd --> fd=/d", Nec > () dittys).
Output:
 Enter number of vertica: 2
 Enter Cost mahren
  041
  402
 120
  Enter source nade: 1
  1-->1=0
  1--72-3
```

Output - Screen shot

Vertex	Distance from Source
0	Ø
1	4
2	12
3	19
4	21
5	11
6	9
7	8
8	14
PS C:\User:	s\mknv7\OneDrive\Desktop\5th Sem\Computer Network>

```
LAD-9
9 Leaky - Bucket
   Import pava use ";
  clas leaty-buttet ?
    public state votal main ( String args ( ) ?
           Scanner SC = new Scanner (System Ph);
         System out printer ("Enter buttet apacty").
          Put Capacity = sc. next Inters
       Lysten out-printly ("Enter output mater):
        Put hate = senext Int ();
       int ours = 0;
  cohele ( Kue) (
    aysternant prenth ("Enter the Expet mate")
     Pat Proput = St next Int ();
    of ( cours + Proput > capacity)
         System out printh ("Bucket Overflow");
   else & ours + = Papert ?
          Curs -= rate;
         ars = Mars. max co, cursti
         Eysten out prentin ( Bucket Capacity 2
```

System - out-prendly (" Do you want to conserve , 2 to exet, I to consence"); get chaose = se-next Int (); if (choose == 2) break: alput Enter butet Capacity.
500
Enter Output rate. 200 Enter Poput Make Bullet Capally 2 : 100. Do you was to consino, 2 to exit, I to Carino

Output – Screen shot

```
Enter the bucket capacity:
500
Enter output rate
200
Enter the input rate:
300
Bucket Capacity is 100
Do you want to continue, 2 to exit, 1 to continue
1
Enter the input rate:
300
Bucket Capacity is 200
Do you want to continue, 2 to exit, 1 to continue
1
Enter the input rate:
400
Bucket Overflow
Do you want to continue, 2 to exit, 1 to continue

[]
```

```
( Chery TOP/28 East , water a client- serve
program to make closet scrotty the filenam
 and the server send back the Contents of the
 requested fele of present.
Server Tepp
 Grown socket Enfort &
 Mangapane = "129.0.0.1"
  Brunfort = 12000
 MARGENSHIF = NOCKETCAF_INET, SOCK-STREAM
 Server Socket . bend (Cherver Name, Lerves Port)
 server Socket. (aten(1)
  alse!
     print ("The server is nearly to receive")
     Connection Actual, adds = Nerver Socket. allegt ()
     Sentence = Connection Sacket - FIREW (3024) delecte ()
     Hele = Open ( sentence, 454)
     l= fole mad (1024)
      Connection Sectiet. Mind ( Lentode ())
      prent (' \ n Sent Content of " + Sentence)
      Aste close ()
      Connection Socket Close O
 clanter by
  from solket Papert &
  189127 Name = 1 127-001
  server Port = 12000
```

client Socket. Cornect ((Nerver Name; server Bort)) Sentence = Enput ("In Enter Jele rame") (BentSicket, 1014 Chentense encode ()) Jole Contents = Client Socket - RELL (1024) elecade () prent (From some : In) prent (fole Contents) Cleent Socket . Close is Alpet. Segvera gele The server & ready to necesse Sent content of slung-text. The server a ruscy to recent. Clant Enter Ide rane: duy txt from series. Received along tot fole from never

Output – Screen shot

```
The server is ready to receive

Sent contents of serverTCP.py
The server is ready to receive
```

```
Enter file name: serverTCP.py

From Server:
   connectionSocket, addr = serverSocket.accept()
   sentence = connectionSocket.recv(1024).decode()

file=open(sentence,"r")
   l=file.read(1024)

   connectionSocket.send(l.encode())
   print ('\nSent contents of ' + sentence)
   file.close()
   connectionSocket.close()
```

```
Using UDF sockets, write a client-source program &
make closet rendery the Jole rane and the resum
to send back the contents of the requested the
J present
Server_UDP by
 grem socket Emport *
  10ther Port = 1200
  Server Socket = Nakes ( RF-INET, SOCK-DURAM)
  server sacket band ("127.00.1" senex Port)
   prent ("Server is such to secesive")
  tellate 1:
       Nentence, Olient Addres = Nence Socket newport court
       Nextence = Kertens. Shede ("ay-1")
       Jele = open (sentance, une)
      1 = Jele . read (2048)
       server Socket lend to Chipa CI, "unj-8"), clientant un)
       postat (' In Sent Contents of , and = ")
        polint (restence)
      Clent-UDP-by
     your socket Emport &
       SMUOINELLE ="127.001"
       Jones Post = 12000
      Client Socket = Socket ( Af - INET, SOCK_PERENT)
      sentence = Papert "Enter He nams: ")
      Clast factit . Needs Chytel resterce, " My-5"), ( Kincer the mings
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gole Centert; server Addre = Clart Socket - now from (2048) prent ("Reply from server") prent (file Contents - alelade ("ciy-8")) Ulent Salet. Closel) Clark Socket Close Out to Server sede Server is seeing to necesse Sent Contents of alley text Clout stell Enter Jele Name: duy tet Reply from Serves It hells the murge to tromported was use.

Output - Screen shot

