COMPUTER NETWORK MODEL PRACTICAL

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Subject bodi: SCBA2501

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Date: 28/w/2021

Baldrid: 4 (cn-u)

Duration: 2hrs

payes !

Aim: To perform a java prog. for UDP dient and UDP Server

Algorithm: (Server)

- 1) bush a new natugram Sochet and Packet
- 2) (note missage to be sent
- 3) Convert into bytes of create a packet
- 5) wait for action acknowledgement from Client
- 6) Par Print data from Wient
- 7) Stop

(notram (mm) impak javario-x; importe java. nut - *; public class udpserver & public dient int public static int dient= 789; public static inte Server = 790; private static Datagram Sochet ds; public states void moven (String [] args) throws

string \$1 Inek Address id = Sout Address. get LocalHost(); Buffered Reader dis= new Buffered Reader (new Snput Stream Reader (Systemin)) ds = new Palagram Sochet (server); bytab[] = new byta [1024]; Systemout. println("Server Side... Sending..."); System-out. println("\n"+id); while (true)

30En cystion

```
Sodis. read Line();
         if (sequals ("end")) {
               b= siget Bytes ();
               Datagram Packet dy=new Datagram Packet
                                    (b, s. length (), id,
                                                dient);
                ds. serol (dp);
                break;
          ehe {
              5= s, get Bytes ();
              Datagram Pachet dp= new Datagram Pachet
                                      (b, s. length (), id,
                                                dient);
                dr sond (dp);
           ) lit shelse
      y 11 while
   ) 11 movin
311 public dass
```

Algorithm (dient)

- 1 Create new Data gram Sochet and Packet
- (2) Cut Packet
- 3) Print Content
- 4) (reate new Packet
- s) Send it to Sorver
 - 6) Stop.

Program (dient)

import java. io. *)
import java. not. *)

public class udp Client d'
public state int client = 787)

private statie Datagram Sochet datagram Sochet;

public status void mour (String ays [)) throws
goenuption (

datagram Sochet = nur Datagram Sochet (drent); ds = datagram Sochet (3); System. out. println ("client_... "Reviewing...");
while (true) of

Datagram l'achet de = new Datagram Pachet (b, b length).

ds. receive (dp);

String s= new String (dp.getDatal), 0, dp.

dp.getLength());

() s. equal ("end"))

System. out. printle (s);

the break;

3 11 while

3 Il main

3 11 public dass.

Olpon mot loming p

Output (Result):

savac udpserner. java

java udpserner

serve Side. Sending...

MBP/192.168.0.7

Chient:

Javac udp Client. java

java udp Client

chient...

Receiving...

