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The screenshot displays a network simulation environment. At the top, there are two terminal windows side-by-side. The left terminal shows a client script being executed, sending messages like "Hi server", "how r you", and "Bye". The right terminal shows a corresponding server script receiving these messages. Below the terminals is the Wireshark interface, which is capturing traffic on the loopback interface 'lo'. The packet list pane shows a series of TCP packets between 127.0.0.1 addresses. The packet details pane for the selected packet (Frame 8) shows the raw bytes and their hexadecimal representation, along with a ASCII dump that includes the text "Hi s erver".

Terminal 1 (Client):

```
himanshu@himanshu-nitro:~/College Documents/TE$ javac 3325_B1a_client.java
himanshu@himanshu-nitro:~/College Documents/TE$ java Client
Connected...

Client : Hi server
Server : Hi there client

Client : how r you
Server : I'm fine

Client : Bye
himanshu@himanshu-nitro:~/College Documents/TE$
```

Terminal 2 (Server):

```
himanshu@himanshu-nitro:~/College Documents/TE$ javac 3325_B1a_server.java
himanshu@himanshu-nitro:~/College Documents/TE$ java Server
Waiting for connections...
Connected...

Cleint : Hi server
Server : Hi there client

Cleint : how r you
Server : I'm fine

Cleint : Bye
himanshu@himanshu-nitro:~/College Documents/TE$
```

Wireshark Interface:

Filter: *Loopback: lo

No.	Time	Source	Destination	Protocol	Length	Info
5	79.639644282	127.0.0.1	127.0.0.1	TCP	74	42030 → 5000 [SYN] Seq=0 Win=65495 Len=0 MSS=65495 SACK_PERM=1 TSval=564908896 TSecr=0 WS=128
6	79.639653718	127.0.0.1	127.0.0.1	TCP	74	5000 → 42030 [SYN, ACK] Seq=0 Ack=1 Win=65483 Len=0 MSS=65495 SACK_PERM=1 TSval=564908896 TSecr=564908896 WS=128
7	79.639662678	127.0.0.1	127.0.0.1	TCP	66	42030 → 5000 [ACK] Seq=1 Ack=1 Win=65536 Len=0 TSval=564908896 TSecr=564908896
8	84.013788925	127.0.0.1	127.0.0.1	TCP	77	42030 → 5000 [PSH, ACK] Seq=1 Ack=1 Win=65536 Len=11 TSval=564913270 TSecr=564908896
9	84.013834585	127.0.0.1	127.0.0.1	TCP	66	5000 → 42030 [ACK] Seq=1 Ack=12 Win=65536 Len=0 TSval=564913270 TSecr=564913270
10	92.869311657	127.0.0.1	127.0.0.1	TCP	83	5000 → 42030 [PSH, ACK] Seq=1 Ack=12 Win=65536 Len=17 TSval=564922126 TSecr=564913270
11	92.869335140	127.0.0.1	127.0.0.1	TCP	66	42030 → 5000 [ACK] Seq=12 Ack=18 Win=65536 Len=0 TSval=564922126 TSecr=564922126
12	103.183747001	127.0.0.1	127.0.0.1	TCP	77	42030 → 5000 [PSH, ACK] Seq=12 Ack=18 Win=65536 Len=11 TSval=564932440 TSecr=564922126
13	103.183775544	127.0.0.1	127.0.0.1	TCP	66	5000 → 42030 [ACK] Seq=18 Ack=23 Win=65536 Len=0 TSval=564932440 TSecr=564932440
14	107.531058031	127.0.0.1	127.0.0.1	TCP	76	5000 → 42030 [PSH, ACK] Seq=18 Ack=23 Win=65536 Len=10 TSval=564936788 TSecr=564932440
15	107.531083869	127.0.0.1	127.0.0.1	TCP	66	42030 → 5000 [ACK] Seq=23 Ack=28 Win=65536 Len=0 TSval=564936788 TSecr=564936788
16	110.219738431	127.0.0.1	127.0.0.1	TCP	71	42030 → 5000 [PSH, ACK] Seq=23 Ack=28 Win=65536 Len=5 TSval=564939476 TSecr=564936788
17	110.219766637	127.0.0.1	127.0.0.1	TCP	66	5000 → 42030 [ACK] Seq=28 Ack=28 Win=65536 Len=0 TSval=564939476 TSecr=564939476
18	110.225967083	127.0.0.1	127.0.0.1	TCP	66	42030 → 5000 [FIN, ACK] Seq=28 Ack=28 Win=65536 Len=0 TSval=564939483 TSecr=564939476
19	110.228065463	127.0.0.1	127.0.0.1	TCP	66	5000 → 42030 [FIN, ACK] Seq=28 Ack=29 Win=65536 Len=0 TSval=564939485 TSecr=564939483
20	110.228076751	127.0.0.1	127.0.0.1	TCP	66	42030 → 5000 [ACK] Seq=29 Ack=29 Win=65536 Len=0 TSval=564939485 TSecr=564939485

Packet Details - Frame 8:

Ethernet II, Src: 00:00:00:00:00:00 (00:00:00:00:00:00), Dst: 00:00:00:00:00:00 (00:00:00:00:00:00)

Internet Protocol Version 4, Src: 127.0.0.1, Dst: 127.0.0.1

Offset	Hex	ASCII
0000	00 00 00 00 00 00 00 00 00 00 00 45 00E..
0010	00 3f 75 46 40 00 04 06 c7 70 7f 00 00 01 7f 00	?uF@.@. .p....
0020	00 01 a4 2e 13 88 64 a7 91 d2 17 25 91 05 80 18	...d...%.....
0030	02 00 fe 33 00 00 01 01 08 0a 21 ab e4 76 21 ab	.3.....!..v!..
0040	d3 60 00 09 48 69 20 73 65 72 76 65 72	...Hi s erver

Transmission Control Protocol: Protocol

Packets: 20 · Displayed: 16 (80.0%)

Profile: Default

