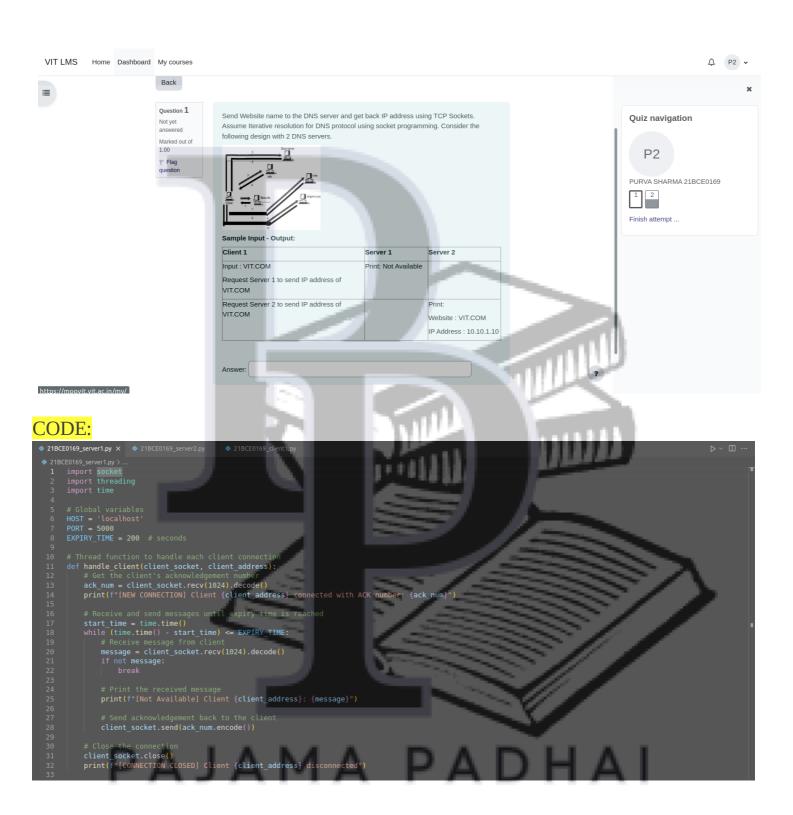
COMPUTER NETWORK LAB CAT



```
# Main function to handle incoming client connections

def (variable) server_socket: socket

server_socket = socket.socket(socket.AF_INET, socket.SOCK_STREAM)

# Bind the socket to the host and port
server_socket.bind((HOST, PORT))

# Listen for incoming connections
server_socket.listen(S)
print("(LISTENING) Server is listening for incoming connections...")

# Accept incoming connections and create a new thread for each client
while True:
client_socket, client_address = server_socket.accept()
client_thread = threading.Thread(target=handle_client, args=(client_socket, client_address))
client_thread.start()

# Run the server
if __name__ == '__main__':
main()
```



PAJAMA PADHA

```
**PINCONS dent by ... **PINCONS dent by ...
```

```
# Send message to the server
client_socket.send(message.encode())

# Close the connection
client_socket.close()

# Run the client
if __name__ == '__main__':
main()
```

INPUT CLIENT 1:

```
PROBLEMS OUTPUT DEBUGCONSOLE TERMINAL

(base) matlab@sjt516scope029:~/Downloads$ /bin/python3.9 /home/matlab/Downloads/21BCE0169_client1.py
Enter your acknowledgement number (0 or 1): 0
VIT.COM Request Server 1 to send IP address of VIT.COM
[MESSAGE RECEIVED] Server: 0

Enter your acknowledgement number (0 or 1): 1
Request Server 2 to send IP address of VIT.COM
[MESSAGE RECEIVED] Server: 1
```

SERVER 1 OUTPUT:

```
/bin/python3.9 /home/matlab/Downloads/21BCE0169_server1.py

(base) matlab@sjt516scope029:~/Downloads$ /bin/python3.9 /home/matlab/Downloads/21BCE0169_server1.py

[LISTENING] Server is listening for incoming connections...

[NEW CONNECTION] Client ('127.0.0.1', 35018) connected with ACK number: 0

[Not Available] Client ('127.0.0.1', 35018): VIT.COM Request Server 1 to send IP address of VIT.COM
```

SERVER 2 OUTPUT:

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

(base) matlab@sjt516scope029:~/Downloads$ /bin/python3.9 /home/matlab/Downloads/21BCE0169_server2.py

[LISTENING] Server is listening for incoming connections...

[NEW CONNECTION] Client ('127.0.0.1', 40434) connected with ACK number: 1

[Website : VIT.COM , IP Address : 10.10.1.10] Client ('127.0.0.1', 40434): Request Server 2 to send IP address of VIT.COM
```

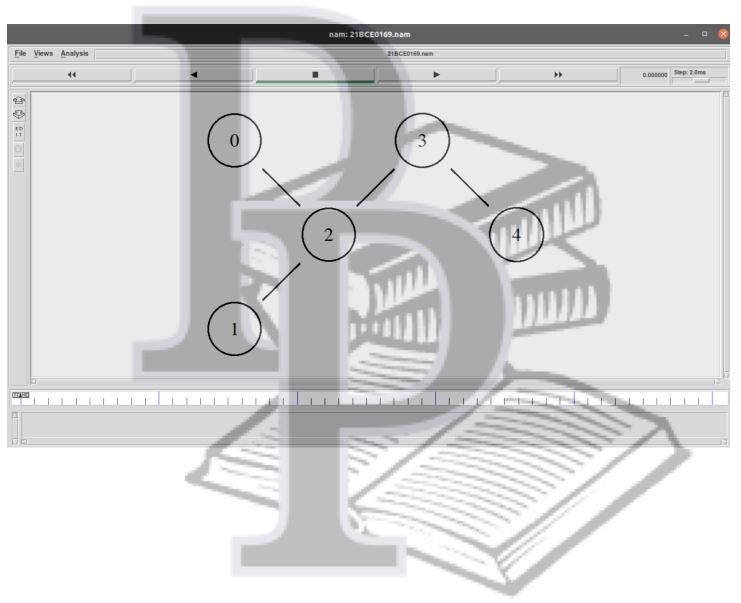


```
# Setting simulation parameters
$ns at 1.0 "$ftp start"
$ns at 2.0 "$ttp send 1000"

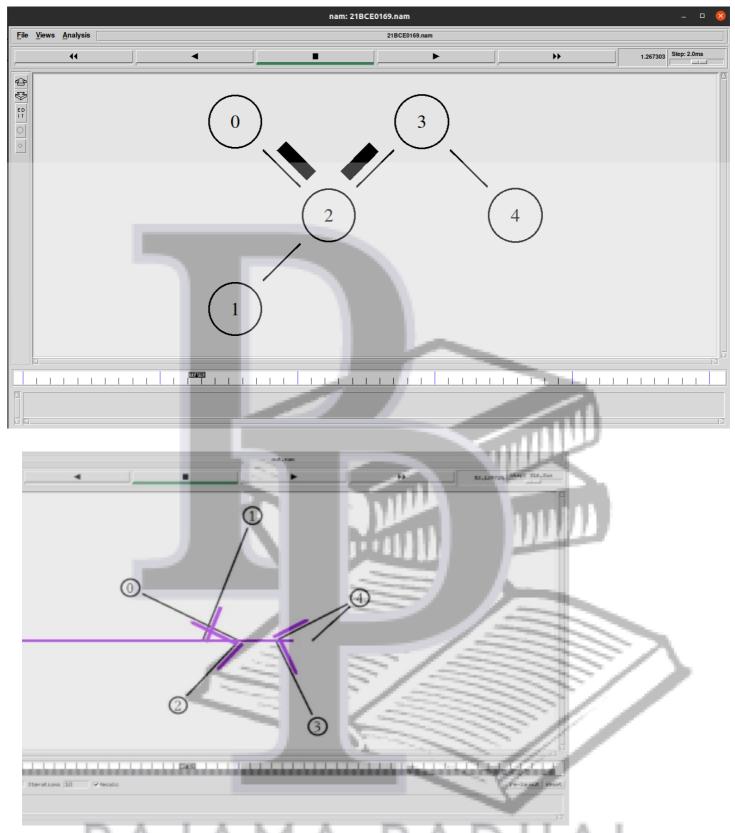
# Running the simulation
$ns at 5.0 "finish"
$ns run
-- INSERT --

44,8 Bot
```





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