

Wireshark Question

1. Start up your web browser and Wireshark packet sniffer. Capture packets in Wireshark while you visit <http://www.nitk.ac.in/> and then in the **Academics** dropdown, Click on **Departments**. Click on the **Computer Science & Engineering department**. Stop Capturing the packets, Inspect the HTTP request and response packets and answer below and answer the following questions:
 - 1) How do you identify HTTP request and response message?
 - 2) What is the IP address of your computer and <http://www.nitk.ac.in/>
 - 3) What is the status code returned from the server to your browser?
 - 4) What is there in the Connection header in your First GET request? What does this mean?
 - 5) What is ETAG? Is there any ETAG header in any of HTTP response message? What does that mean?
 - 6) Is there any Cache-control header in any of the response messages? What does the max-age directive in the cache control header mean?
2. Start up your web browser and Wireshark packet sniffer. Capture packets in Wireshark while you visit <http://cse.nitk.ac.in/>. Stop Capturing the packets, Inspect the HTTP request and response packets and answer below and answer the following questions:
 - 1) Is there any referer Header? If it is there, what does it contain? What does referer header mean?

Socket Programming

1. Write a program to exchange hello messages between server and client to demonstrate the client/server model where a client should send “Hello Server” to the server, and the server should reply back saying “Hi Client, How are you?”.