# ASSIGNMENT-3

## Implementing HTTP Web Proxy

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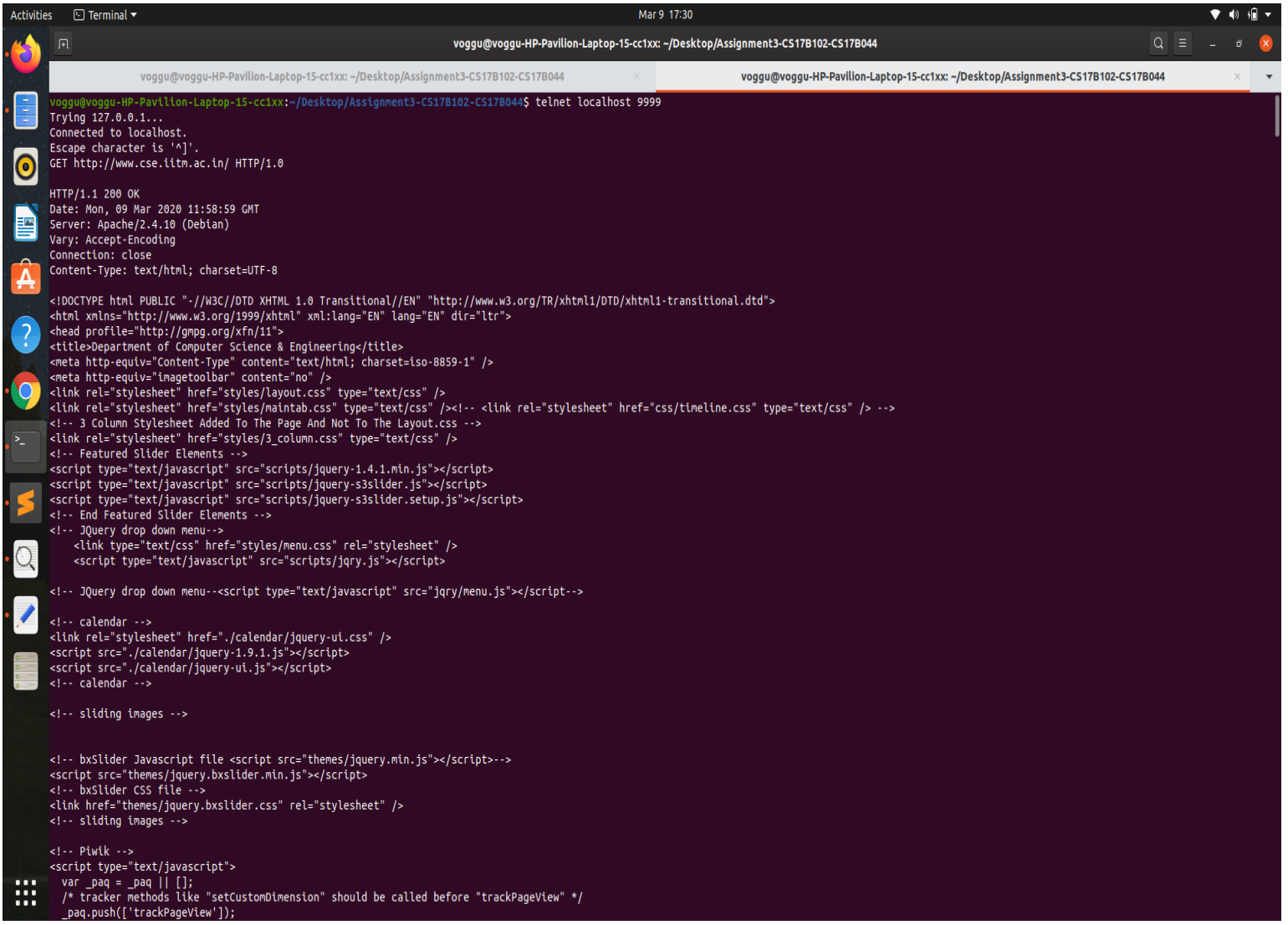
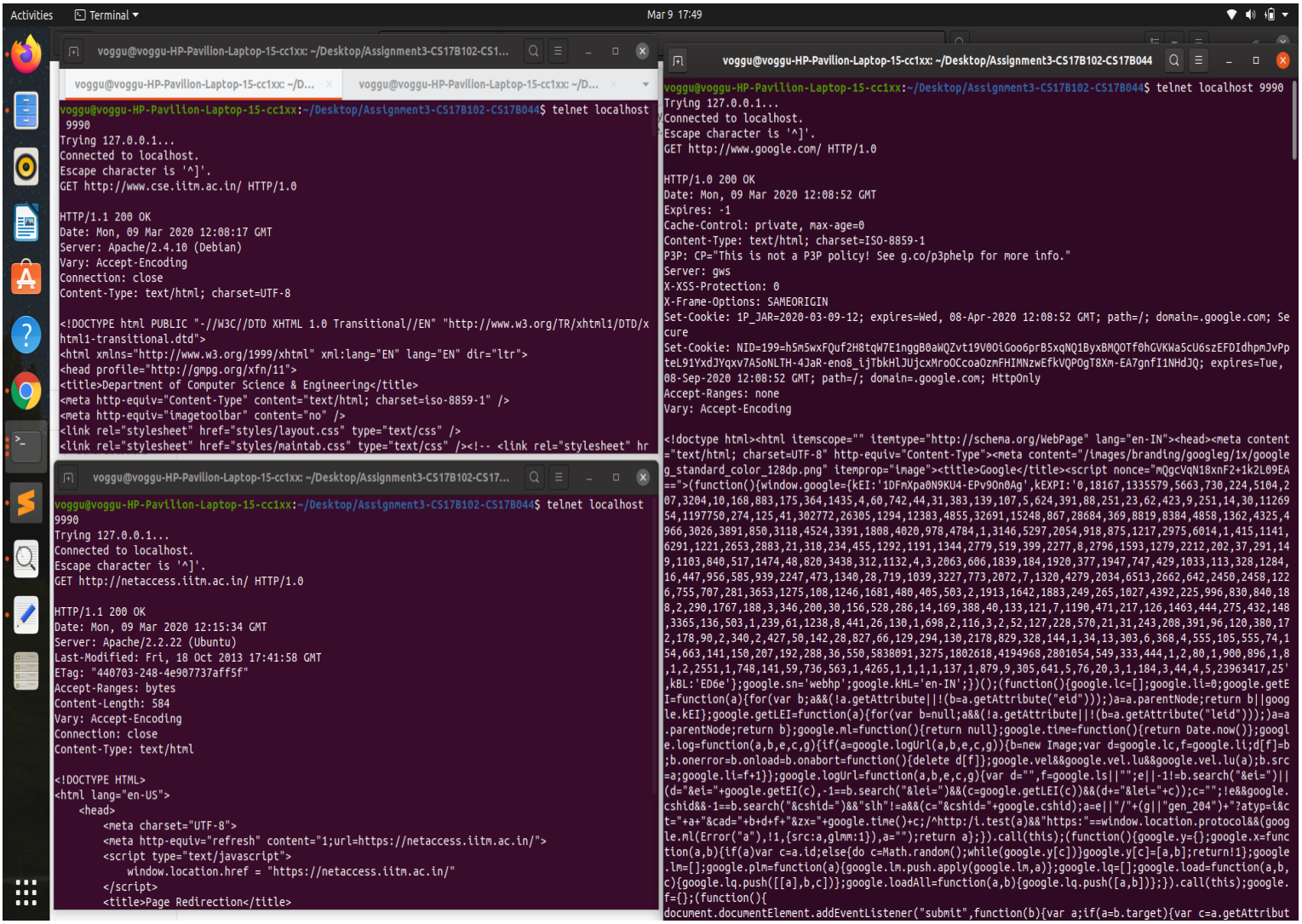
Experiment 1:  One Client (Single Terminal)




Analysis:

Our experiment is working fine if we send request from one client as we can clearly see we got reply “200 OK” from receiver end we have used port number as 9999 here.

Experiment 2: Simultaneous more than one client




Analysis:

Our experiment is working fine even if we send requests from more than one client here we have used 3 clients and sent 3 different requests to server and got “OK” replies from each of them in above picture 3 different terminals imply 3 different clients sending requests and they are handled properly.

## Summary:

We've learnt what is socket programming and how it works to a good extent and implemented a model analogous to HTTP proxy server and clearly understood how messages are sent and received at both client and server ends and how proxy manages them. Our proxy acted as client for actual server and server for actual client which mediates the process of sending server request from client to server and received reply from server to client. Basically we have parsed server request from client and sent parsed request to server and collected reply from server and sent it to client using sockets. Mainly we have learnt how HTTP proxy server works and how socket programming works. Experiment was beneficial in learning about HTTP Proxy server works.