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COMP 332

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<u>README HW#3</u>

There are two python files included called WEB_CLIENT.py and WEB_PROXY.py. The goal of these two scripts is to create and implement a simple web client and web proxy using python.

The "web_client.py" file is a python script used to interact with a web proxy. This script sends a requested URL to its specified proxy and then prints the response received from the proxy. To run the web client, we must use the terminal and type the following command:

python3 web_client.py <proxy_host> <proxy_port> <requested_url>
An example of the command being ran properly is as follows:

python3 web_client.py localhost 50008 http://example.com/

The "web_proxy.py" file is a multi-threaded web proxy. It listens for client connections, retrieves the requested URLs from the clients, caches responses from web servers, and forwards the responses to the client. To run the web proxy, we must use the terminal and type the following command:

python3 web_proxy.py <proxy_host> <proxy_port>

An example of the command being ran properly is as follows:

python3 web_client.py localhost 50008

***Note- when running python3 web_client.py localhost 50008 http://example.com/, the response takes about 3 minutes to fully load. ***