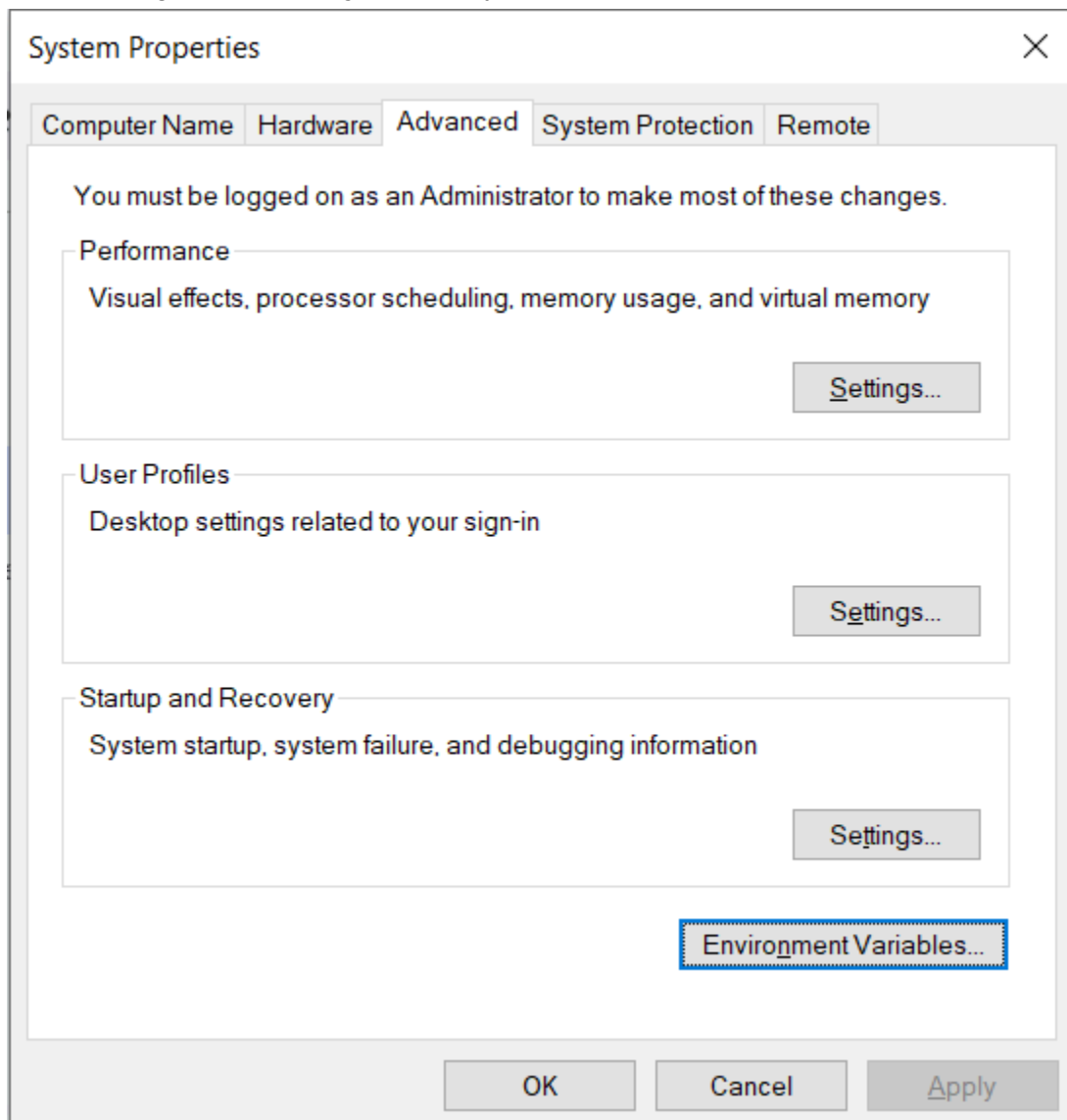


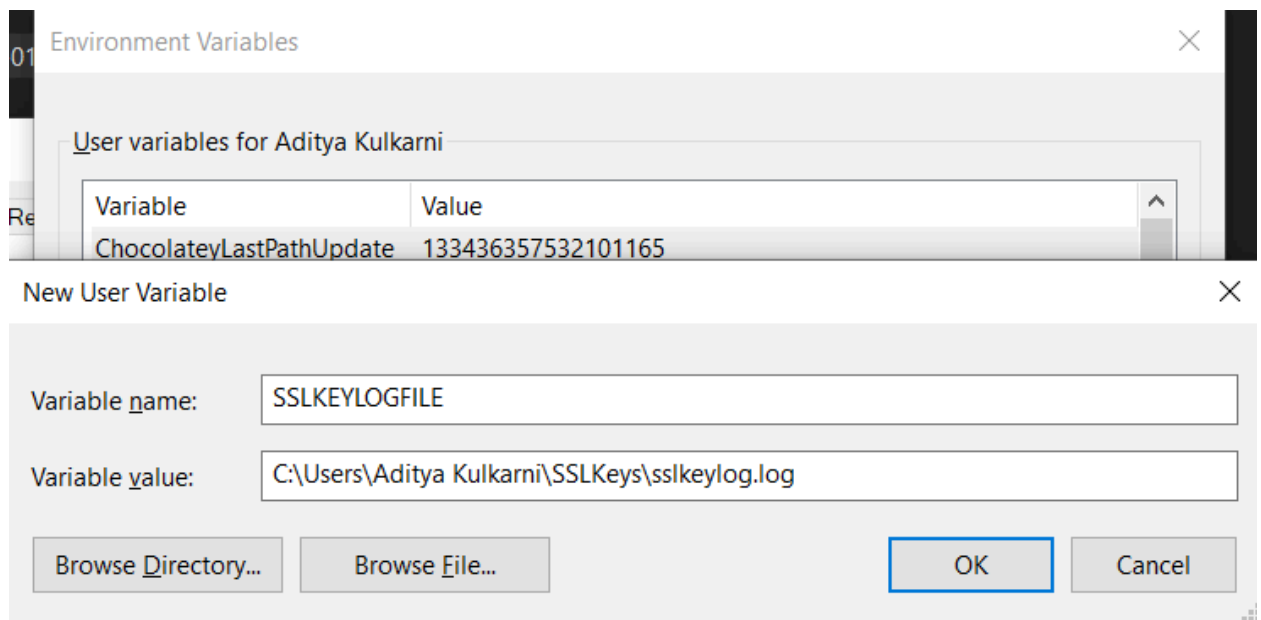
SSL/TLS setup for decrypting the data packets

Windows

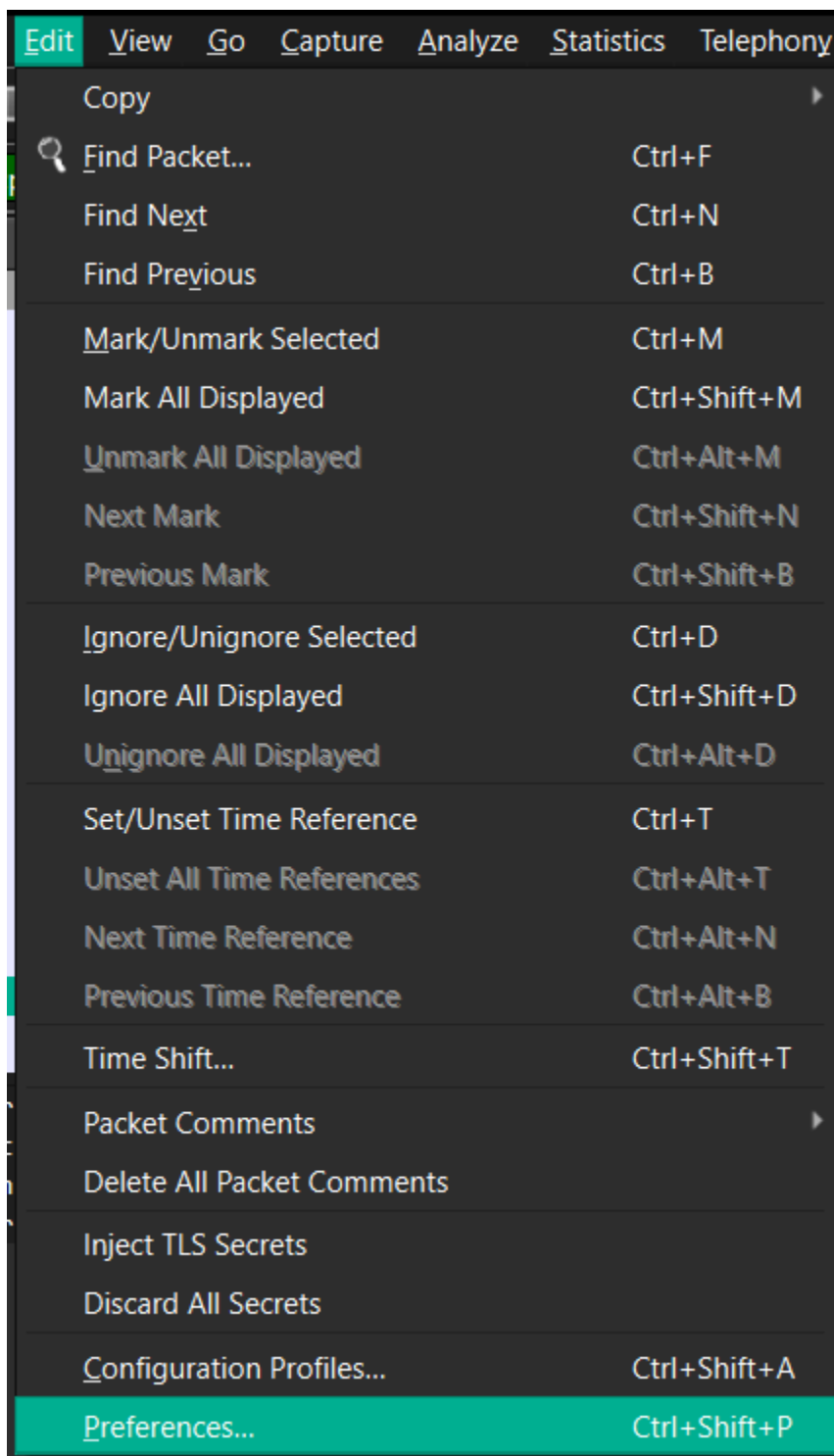
1. Goto **Local Disk C -> Users -> Aditya Kulkarni** (Note: instead of Aditya Kulkarni, you will have your system name).
2. Create a folder named **SSLKeys**, and go inside this folder to create a file named **sslkeylog.log**
3. Search using **Windows key + S** and type **Environment Variables**.



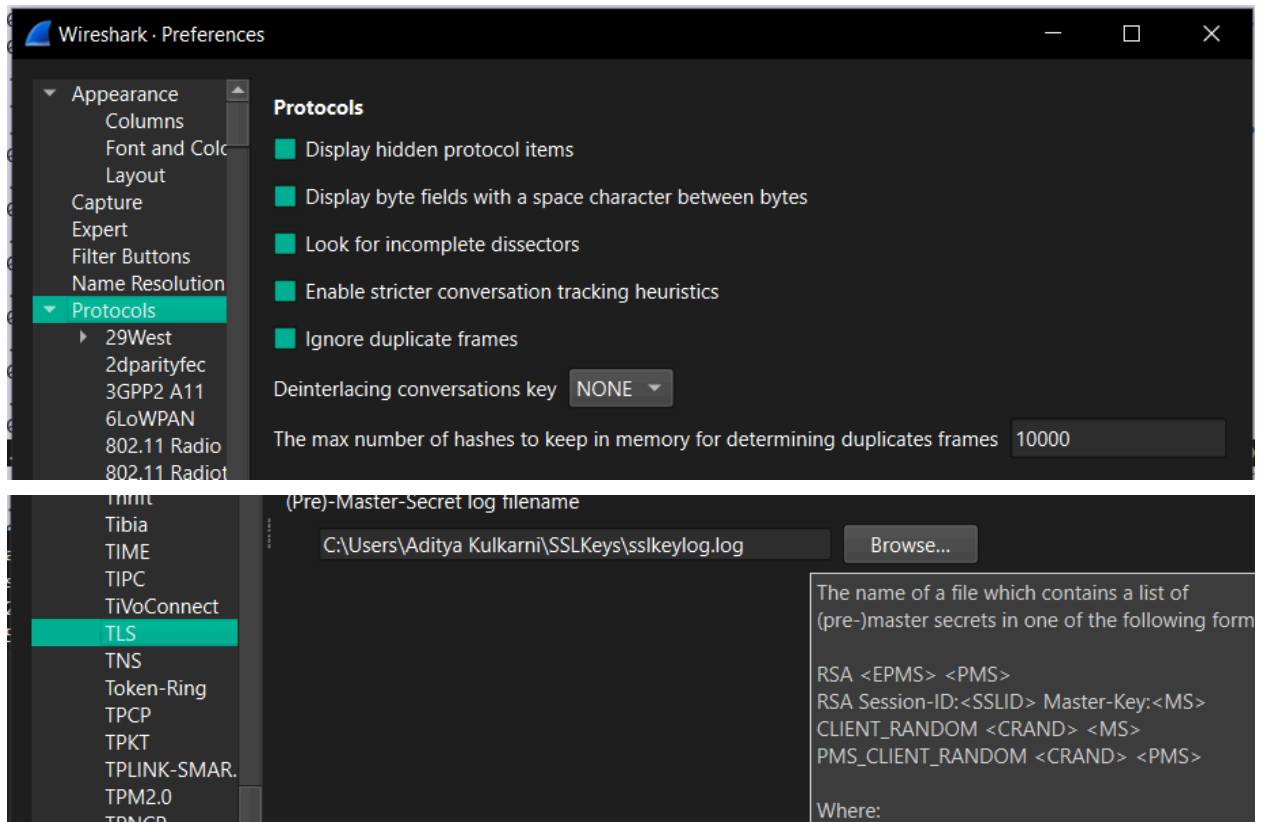
4. In the **User Variables** section, click on New type the path to the created file **sslkeylog.log** and click on the **OK** button. Example:



5. Restart your system
6. Open Wireshark, and in a browser type a URL (e.g., iitdh.ac.in) and capture the trace file.
7. Save the trace as a .pcap file, and follow the instructions
 - a. Goto **Edit -> Preferences**



b) Select the **Protocols** and choose **TLS**



- c) In the (Pre)-Master-Secret log filename choose the **sslkeylog.log** file, select **Apply** and **OK**.
8. Now all the packets that are encrypted are decrypted for the entire trace.

Ubuntu

1. Open the terminal enter the following commands and keep this terminal running:

```
export SSLKEYLOGFILE=$HOME/sslkeylog.log  
firefox
```
2. Open another terminal and type the following command:

```
resolvectl flush-caches  
wireshark
```
3. Start the Wireshark and enter a domain say, iitdh.ac.in in the browser to capture the packets
4. Stop Wireshark once the webpage loads completely, and then follow steps 7 and 8, similar to those for Windows. **[NOTE: Load the file `sslkeylog.log` from the `/home/USER/` directory]**