In the current semester, I implemented a project that focused on analysis of email system. In particular, the project dealt with downloading the emails from a given mail account, followed by providing some upper-layer applications based on the email data. I used python to analyze the emails and provide detailed information like SMTP server location, origin IP address etc, corresponding to the sender of the email.

The project functionality is as follows:

1. First, we need to run email\_down.py. The output of this file is email\_down.txt. This text file contains 5 key information: From(sender of email), Subject, Received (receiver's info), server response and email ID associated with each email.

2. Then we need to run dn.py. The output of this program is dns.txt (which contains Domain Names and their IP address) and hostname.txt (which contains only the Domain Names).

3. Then we run wh.py. This runs the python-whois command on all the hostnames. The info.txt contains all the information about the hostnames.