

1.
vim was used for writing the homework.
2.

```
sudo apt install lighttpd
sudo lighty-enable-mod fastcgi
sudo lighty-enable-mod fastcgi-php
sudo service lighttpd force-reload
cd /var/www/html
sudo chown iviolette .
vim index.html
vim index.php
```
3.

```
sudo apt install sqlite3 sqlitebrowser
sudo apt install php-sqlite3
```
4.

```
sudo apt install php php-cgi
IN PHP FILE:
    <?php
        echo "Hello World";
    ?>
```
5.

```
IP/Netmask: 10.11.132.160/19
Network: 10.11.128.0
Broadcast: 10.11.159.255
Total Addresses: 8192
Assignable Addresses: 8190
```

WORK:

```
11100000000000000 & 1000010010100000 = 10000000000000000 = 10.11.128.0
10011111111111111 = 10.11.159.255
2^(32-19) = 8192
8192 - 2 = 8190
```

Network: 192.168.45.128
IP/Netmask: 192.168.45.150/26
Broadcast: 192.168.45.191
Total Addresses: 64
Assignable Adresses: 62

WORK:

```
NA: 192.168.45.10000000
BA: 192.168.45.10111111
```

The sign flips in the 27th spot so the mask is 26. IP address needs to be in between those values.

```
2^(32-26) = 64
64 - 2 = 62
```
6.

```
enscript -b '$n %E %C|$%'Isaac Violette' -T 4 -M Letter -p HW8.ps HW8
```