Practical Exercise Communication System II (Rechnernetze II) **Domain Name Server (DNS)**

Exercise 1:

Make a DNS configuration, first you need to configure your IP to be 192.168.1.x:

After you become a super user, then change your working directory into bind directory

cd /etc/bind/

Then make a new database file where we will declare the computer as DNS server. You can make your own name for your new file, and then we can just copy the files from default bind's file, namely <code>db.local</code>

It will be like: db.xxx

The next step is editing the files with your editor. (You can choose any editors)

```
; BIND data file for local loopback interface
$TTL 604800
@ IN SOA ns.yourdomain. root.yourdomain. (
                                 1 ; Serial
                            604800 ; Refresh
                             86400 ; Retry
                           2419200 ; Expire
                       604800 ) ; Negative Cache TTL
;
<sub>@</sub>
       IN NS
                       ns.yourdomain.
       IN
            Α
                       your ip
ns
       IN
            Α
                       your ip
       IN
            CNAME
                       ns
www
       IN
            CNAME
ftp
                       ns
       IN
            CNAME
smtp
                       ns
```

you can use your domain like: google.net or Iamrockstar.com

Exercise 2:

```
Make a resolver file " cp db.yourdomain db.IP "
Edit your resolver file. Delete all lines after this line

© IN NS ns.yourdomain.

And add this line and save:

1 IN PTR ns.yourdomain.

Note: 1 is your ID from your IP
```

Exercise 3:

Please replace XXX with your file name which you made in the first step.

Exercise 4:

Editing DNS client

- 1. Go to directory etc
- 2. Edit resolve.conf
- 3. Add this character to resolv.conf file:

```
Domain yourdomain
Search yourdomain
Nameserver "your IP"
Nameserver "your Neighbour IP"
```

After your configuration save the file and restart bind with this command:

```
/etc/init.d/bind9 restart
```

Then the last step is try to ping your domain

Then use nslookup to show your server IP.

```
Nslookup www.yourdomain or Nslookup yourdomain
```

And you can also use nslookup for your neighbour domain

```
Nslookup www.your neighbor domain
```

Is it working? Try to check your file once again, and make sure about space and dot.