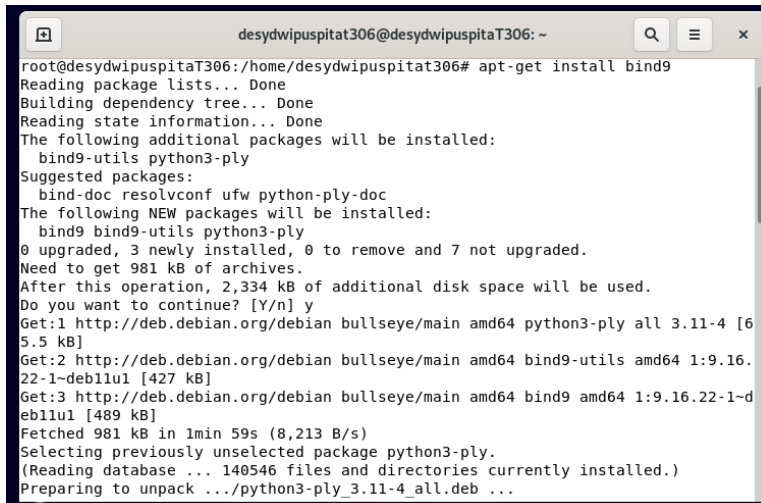


Judul :

Bind9

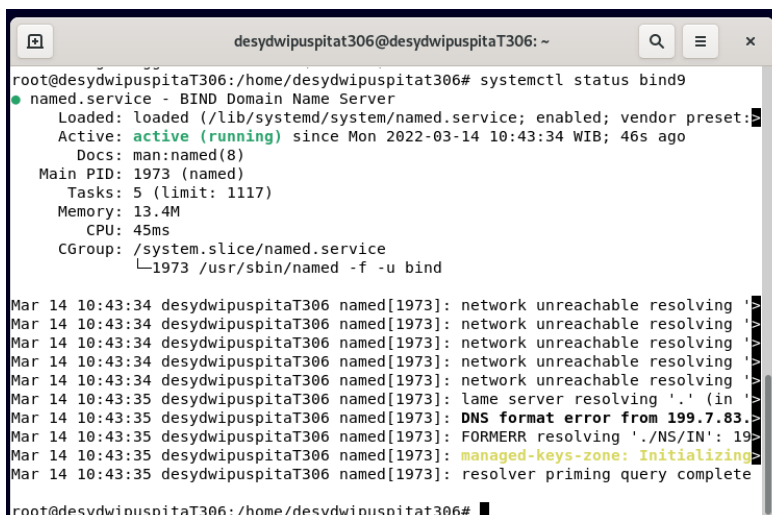
Laporan Hasil Tugas Praktikum :

1. Ketikkan “apt-get install bind9”



```
desydwipuspat306@desydwipuspat306: ~  
root@desydwipuspat306:/home/desydwipuspat306# apt-get install bind9  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
The following additional packages will be installed:  
  bind9-utils python3-ply  
Suggested packages:  
  bind-doc resolvconf ufw python-ply-doc  
The following NEW packages will be installed:  
  bind9 bind9-utils python3-ply  
0 upgraded, 3 newly installed, 0 to remove and 7 not upgraded.  
Need to get 981 kB of archives.  
After this operation, 2,334 kB of additional disk space will be used.  
Do you want to continue? [Y/n] y  
Get:1 http://deb.debian.org/debian bullseye/main amd64 python3-ply all 3.11-4 [6  
5.5 kB]  
Get:2 http://deb.debian.org/debian bullseye/main amd64 bind9-utils amd64 1:9.16.  
22-1~deb11u1 [427 kB]  
Get:3 http://deb.debian.org/debian bullseye/main amd64 bind9 amd64 1:9.16.22-1~d  
eb11u1 [489 kB]  
Fetched 981 kB in 1min 59s (8,213 B/s)  
Selecting previously unselected package python3-ply.  
(Reading database ... 140546 files and directories currently installed.)  
Preparing to unpack .../python3-ply_3.11-4_all.deb ...
```

2. Kemudian ketikkan “systemctl status bind9”



```
desydwipuspat306@desydwipuspat306: ~  
root@desydwipuspat306:/home/desydwipuspat306# systemctl status bind9  
● named.service - BIND Domain Name Server  
   Loaded: loaded (/lib/systemd/system/named.service; enabled; vendor preset: en  
   Active: active (running) since Mon 2022-03-14 10:43:34 WIB; 46s ago  
     Docs: man:named(8)  
   Main PID: 1973 (named)  
     Tasks: 5 (limit: 1117)  
    Memory: 13.4M  
       CPU: 45ms  
    CGroup: /system.slice/named.service  
            └─1973 /usr/sbin/named -f -u bind  
  
Mar 14 10:43:34 desydwipuspat306 named[1973]: network unreachable resolving '>  
Mar 14 10:43:34 desydwipuspat306 named[1973]: network unreachable resolving '>  
Mar 14 10:43:34 desydwipuspat306 named[1973]: network unreachable resolving '>  
Mar 14 10:43:34 desydwipuspat306 named[1973]: network unreachable resolving '>  
Mar 14 10:43:34 desydwipuspat306 named[1973]: lame server resolving '.' (in '>  
Mar 14 10:43:35 desydwipuspat306 named[1973]: DNS format error from 199.7.83.>  
Mar 14 10:43:35 desydwipuspat306 named[1973]: FORMERR resolving './NS/IN': 19>  
Mar 14 10:43:35 desydwipuspat306 named[1973]: managed-keys-zone: Initializing>  
Mar 14 10:43:35 desydwipuspat306 named[1973]: resolver priming query complete  
  
root@desydwipuspat306:/home/desydwipuspat306#
```

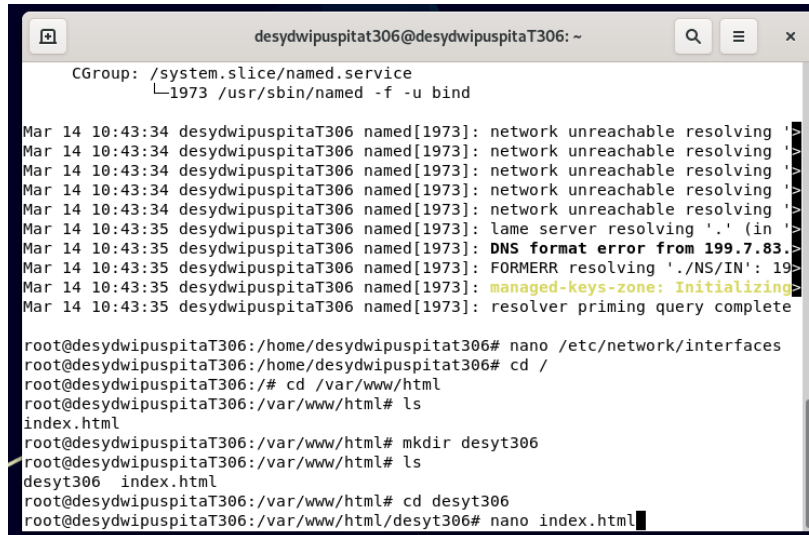
3. Kemudian ketikkan “nano /etc/network/interfaces” >>> “cd /” >>> “cd /var/www/html”

```
desydwipuspitat306@desydwipuspitat306: ~  
Loaded: loaded (/lib/systemd/system/named.service; enabled; vendor preset: >  
Active: active (running) since Mon 2022-03-14 10:43:34 WIB; 46s ago  
Docs: man:named(8)  
Main PID: 1973 (named)  
Tasks: 5 (limit: 1117)  
Memory: 13.4M  
CPU: 45ms  
CGroup: /system.slice/named.service  
└─1973 /usr/sbin/named -f -u bind  
  
Mar 14 10:43:34 desydwipuspitat306 named[1973]: network unreachable resolving '>  
Mar 14 10:43:34 desydwipuspitat306 named[1973]: network unreachable resolving '>  
Mar 14 10:43:34 desydwipuspitat306 named[1973]: network unreachable resolving '>  
Mar 14 10:43:34 desydwipuspitat306 named[1973]: network unreachable resolving '>  
Mar 14 10:43:34 desydwipuspitat306 named[1973]: network unreachable resolving '>  
Mar 14 10:43:35 desydwipuspitat306 named[1973]: lame server resolving '.' (in '>  
Mar 14 10:43:35 desydwipuspitat306 named[1973]: DNS format error from 199.7.83.>  
Mar 14 10:43:35 desydwipuspitat306 named[1973]: FORMERR resolving './NS/IN': 19>  
Mar 14 10:43:35 desydwipuspitat306 named[1973]: managed-keys-zone: Initializin>  
Mar 14 10:43:35 desydwipuspitat306 named[1973]: resolver priming query complete  
  
root@desydwipuspitat306:/home/desydwipuspitat306# nano /etc/network/interfaces  
root@desydwipuspitat306:/home/desydwipuspitat306# cd /  
root@desydwipuspitat306:/# cd /var/www/html
```

4. Ketikkan “ls” >>> “mkdir (nama anda)”

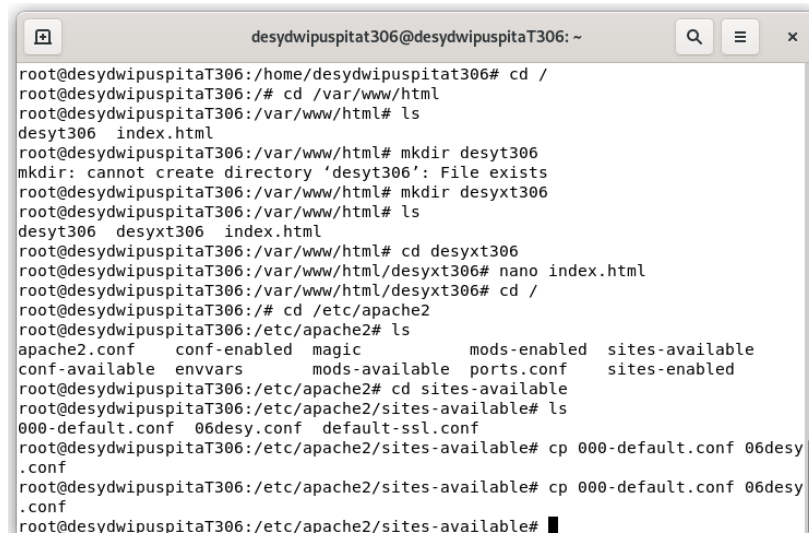
```
desydwipuspitat306@desydwipuspitat306: ~  
Main PID: 1973 (named)  
Tasks: 5 (limit: 1117)  
Memory: 13.4M  
CPU: 45ms  
CGroup: /system.slice/named.service  
└─1973 /usr/sbin/named -f -u bind  
  
Mar 14 10:43:34 desydwipuspitat306 named[1973]: network unreachable resolving '>  
Mar 14 10:43:34 desydwipuspitat306 named[1973]: network unreachable resolving '>  
Mar 14 10:43:34 desydwipuspitat306 named[1973]: network unreachable resolving '>  
Mar 14 10:43:34 desydwipuspitat306 named[1973]: network unreachable resolving '>  
Mar 14 10:43:34 desydwipuspitat306 named[1973]: network unreachable resolving '>  
Mar 14 10:43:35 desydwipuspitat306 named[1973]: lame server resolving '.' (in '>  
Mar 14 10:43:35 desydwipuspitat306 named[1973]: DNS format error from 199.7.83.>  
Mar 14 10:43:35 desydwipuspitat306 named[1973]: FORMERR resolving './NS/IN': 19>  
Mar 14 10:43:35 desydwipuspitat306 named[1973]: managed-keys-zone: Initializin>  
Mar 14 10:43:35 desydwipuspitat306 named[1973]: resolver priming query complete  
  
root@desydwipuspitat306:/home/desydwipuspitat306# nano /etc/network/interfaces  
root@desydwipuspitat306:/home/desydwipuspitat306# cd /  
root@desydwipuspitat306:/# cd /var/www/html  
root@desydwipuspitat306:/var/www/html# ls  
index.html  
root@desydwipuspitat306:/var/www/html# mkdir desyt306
```

5. Kemudian ketikkan “ls” >>> “cd (nama anda)” >>> “nano index.html”
Lalu buat coding html sederhana



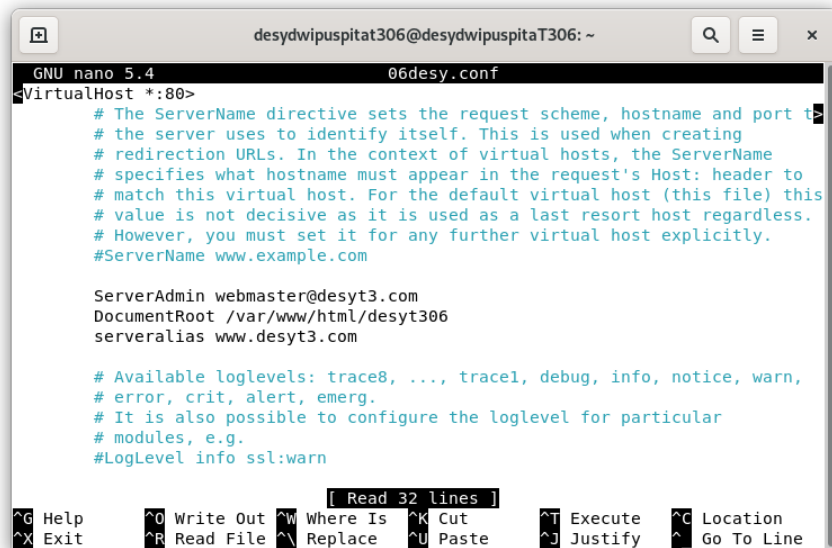
```
desydwipuspat306@desydwipuspat306: ~  
CGroup: /system.slice/named.service  
└─1973 /usr/sbin/named -f -u bind  
Mar 14 10:43:34 desydwipuspat306 named[1973]: network unreachable resolving  
Mar 14 10:43:34 desydwipuspat306 named[1973]: network unreachable resolving  
Mar 14 10:43:34 desydwipuspat306 named[1973]: network unreachable resolving  
Mar 14 10:43:34 desydwipuspat306 named[1973]: network unreachable resolving  
Mar 14 10:43:34 desydwipuspat306 named[1973]: network unreachable resolving  
Mar 14 10:43:35 desydwipuspat306 named[1973]: lame server resolving '.' (in  
Mar 14 10:43:35 desydwipuspat306 named[1973]: DNS format error from 199.7.83.  
Mar 14 10:43:35 desydwipuspat306 named[1973]: FORMERR resolving './NS/IN': 19  
Mar 14 10:43:35 desydwipuspat306 named[1973]: managed-keys-zone: Initializing  
Mar 14 10:43:35 desydwipuspat306 named[1973]: resolver priming query complete  
  
root@desydwipuspat306:/home/desydwipuspat306# nano /etc/network/interfaces  
root@desydwipuspat306:/home/desydwipuspat306# cd /  
root@desydwipuspat306:/# cd /var/www/html  
root@desydwipuspat306:/var/www/html# ls  
index.html  
root@desydwipuspat306:/var/www/html# mkdir desyt306  
root@desydwipuspat306:/var/www/html# ls  
desyt306 index.html  
root@desydwipuspat306:/var/www/html# cd desyt306  
root@desydwipuspat306:/var/www/html/desy306# nano index.html
```

6. Ketikkan ketikan “cd” / >>> “ls” >>> “cd sites-available” >>> “ls” >>> “cp 000-default.conf nama dan kelas anda.conf” >>> “lf” >>> “nano nama dan kelas anda.conf”



```
desydwipuspat306@desydwipuspat306: ~  
root@desydwipuspat306:/home/desydwipuspat306# cd /  
root@desydwipuspat306:/# cd /var/www/html  
root@desydwipuspat306:/var/www/html# ls  
desyt306 index.html  
root@desydwipuspat306:/var/www/html# mkdir desyt306  
mkdir: cannot create directory 'desyt306': File exists  
root@desydwipuspat306:/var/www/html# mkdir desyxt306  
root@desydwipuspat306:/var/www/html# ls  
desyt306 desyxt306 index.html  
root@desydwipuspat306:/var/www/html# cd desyxt306  
root@desydwipuspat306:/var/www/html/desyxt306# nano index.html  
root@desydwipuspat306:/var/www/html/desyxt306# cd /  
root@desydwipuspat306:/# cd /etc/apache2  
root@desydwipuspat306:/etc/apache2# ls  
apache2.conf  conf-enabled  magic  mods-enabled  sites-available  
conf-available  envvars  mods-available  ports.conf  sites-enabled  
root@desydwipuspat306:/etc/apache2# cd sites-available  
root@desydwipuspat306:/etc/apache2/sites-available# ls  
000-default.conf  06desy.conf  default-ssl.conf  
root@desydwipuspat306:/etc/apache2/sites-available# cp 000-default.conf 06desy  
.conf  
root@desydwipuspat306:/etc/apache2/sites-available# cp 000-default.conf 06desy  
.conf  
root@desydwipuspat306:/etc/apache2/sites-available#
```

7. Ganti webmaster@domain anda >> tambahkan di documentroot /var/www/html/nama kelas absen anda >> ketikan serveralias domain anda



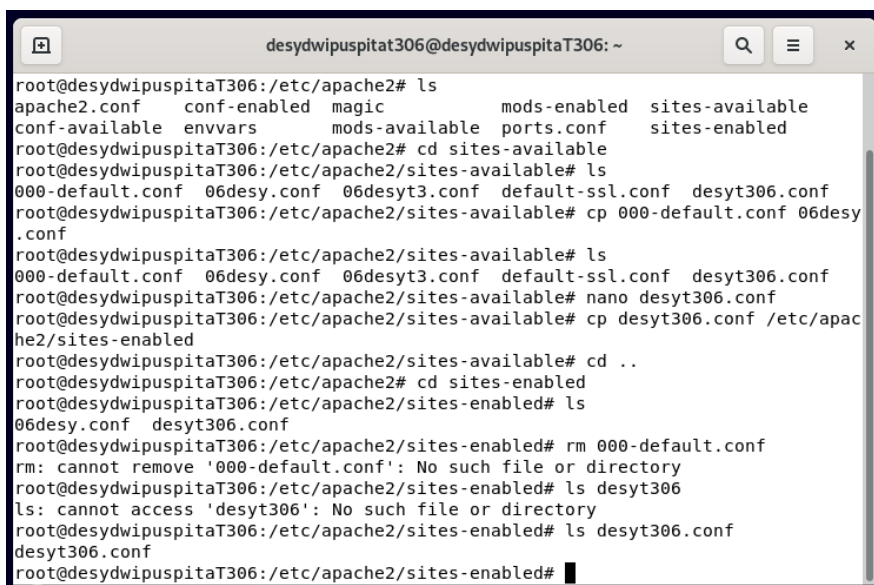
```
desydwipuspita306@desydwipuspitaT306: ~
GNU nano 5.4 06desy.conf
<VirtualHost *:80>
# The ServerName directive sets the request scheme, hostname and port that
# the server uses to identify itself. This is used when creating
# redirection URLs. In the context of virtual hosts, the ServerName
# specifies what hostname must appear in the request's Host: header to
# match this virtual host. For the default virtual host (this file) this
# value is not decisive as it is used as a last resort host regardless.
# However, you must set it for any further virtual host explicitly.
#ServerName www.example.com

ServerAdmin webmaster@desyt3.com
DocumentRoot /var/www/html/desy306
serveralias www.desyt3.com

# Available loglevels: trace8, ..., trace1, debug, info, notice, warn,
# error, crit, alert, emerg.
# It is also possible to configure the loglevel for particular
# modules, e.g.
#LogLevel info ssl:warn

[ Read 32 Lines ]
^G Help      ^O Write Out ^W Where Is  ^K Cut       ^T Execute   ^C Location
^X Exit      ^R Read File ^N Replace   ^U Paste     ^J Justify   ^_ Go To Line
```

8. Penjelasan : ketikan `cd .. >> cd sites-enabled >> ls >> cp nama absen.conf /etc/apache2/sites-enabled >> cd sites-available >> cd .. >> cd sites-available >> cp nama absen anda.conf /etc/apache2/sites-enabled >> cd .. >> cd sites-enabled >> ls >> rm 000-default.conf >> systemctl restart apache2 >> cd /var/www/html >> ls`



```
desydwipuspita306@desydwipuspitaT306: ~
root@desydwipuspitaT306:/etc/apache2# ls
apache2.conf  conf-enabled  magic          mods-enabled  sites-available
conf-available  envvars      mods-available  ports.conf    sites-enabled
root@desydwipuspitaT306:/etc/apache2# cd sites-available
root@desydwipuspitaT306:/etc/apache2/sites-available# ls
000-default.conf  06desy.conf  06desyt3.conf  default-ssl.conf  desyt306.conf
root@desydwipuspitaT306:/etc/apache2/sites-available# cp 000-default.conf 06desy
.conf
root@desydwipuspitaT306:/etc/apache2/sites-available# ls
000-default.conf  06desy.conf  06desyt3.conf  default-ssl.conf  desyt306.conf
root@desydwipuspitaT306:/etc/apache2/sites-available# nano desyt306.conf
root@desydwipuspitaT306:/etc/apache2/sites-available# cp desyt306.conf /etc/apac
he2/sites-enabled
root@desydwipuspitaT306:/etc/apache2/sites-available# cd ..
root@desydwipuspitaT306:/etc/apache2# cd sites-enabled
root@desydwipuspitaT306:/etc/apache2/sites-enabled# ls
06desy.conf  desyt306.conf
root@desydwipuspitaT306:/etc/apache2/sites-enabled# rm 000-default.conf
rm: cannot remove '000-default.conf': No such file or directory
root@desydwipuspitaT306:/etc/apache2/sites-enabled# ls desyt306
ls: cannot access 'desyt306': No such file or directory
root@desydwipuspitaT306:/etc/apache2/sites-enabled# ls desyt306.conf
desyt306.conf
root@desydwipuspitaT306:/etc/apache2/sites-enabled#
```

9. Ketikkan nama anda



10. ketikan `cd /etc/bind`

```
desydwipuspat306@desydwipuspat306: ~  
root@desydwipuspat306:/etc/apache2# cd sites-available  
root@desydwipuspat306:/etc/apache2/sites-available# ls  
000-default.conf 06desy.conf 06desyt3.conf default-ssl.conf desyt306.conf  
root@desydwipuspat306:/etc/apache2/sites-available# cp 000-default.conf 06desy  
.conf  
root@desydwipuspat306:/etc/apache2/sites-available# ls  
000-default.conf 06desy.conf 06desyt3.conf default-ssl.conf desyt306.conf  
root@desydwipuspat306:/etc/apache2/sites-available# nano desyt306.conf  
root@desydwipuspat306:/etc/apache2/sites-available# cp desyt306.conf /etc/apac  
he2/sites-enabled  
root@desydwipuspat306:/etc/apache2/sites-enabled# cd ..  
root@desydwipuspat306:/etc/apache2# cd sites-enabled  
root@desydwipuspat306:/etc/apache2/sites-enabled# ls  
06desy.conf desyt306.conf  
root@desydwipuspat306:/etc/apache2/sites-enabled# rm 000-default.conf  
rm: cannot remove '000-default.conf': No such file or directory  
root@desydwipuspat306:/etc/apache2/sites-enabled# ls desyt306  
ls: cannot access 'desyt306': No such file or directory  
root@desydwipuspat306:/etc/apache2/sites-enabled# ls desyt306.conf  
desyt306.conf  
root@desydwipuspat306:/etc/apache2/sites-enabled# cd /etc/bin  
bash: cd: /etc/bin: No such file or directory  
root@desydwipuspat306:/etc/apache2/sites-enabled# cd /etc/bind  
root@desydwipuspat306:/etc/bind#
```

11. ketikan `ls -> cp db.local db.nama kelas anda -> ls -> cp db.127 db.ip terakhir -> ls -> cd .. -> cd /etc/bind -> nano named.conf.default-zones`

```
desydwipuspitat306@desydwipuspitat306: ~  
● named.service - BIND Domain Name Server  
   Loaded: loaded (/lib/systemd/system/named.service; enabled; vendor preset: enabled)  
   Active: active (running) since Mon 2022-03-21 10:26:02 WIB; 41min ago  
     Docs: man:named(8)  
  Main PID: 493 (named)  
    Tasks: 5 (limit: 1117)  
  Memory: 23.2M  
     CPU: 688ms  
   CGroup: /system.slice/named.service  
           └─493 /usr/sbin/named -f -u bind  
  
Mar 21 10:55:42 desydwipuspitat306 named[493]: scheduled loading new zones  
Mar 21 10:55:42 desydwipuspitat306 named[493]: network unreachable resolving '._.  
Mar 21 10:55:42 desydwipuspitat306 named[493]: network unreachable resolving '._.  
Mar 21 10:55:42 desydwipuspitat306 named[493]: managed-keys-zone: Unable to fet  
Mar 21 10:55:42 desydwipuspitat306 named[493]: resolver priming query complete  
Mar 21 10:55:42 desydwipuspitat306 named[493]: any newly configured zones are n  
Mar 21 10:55:42 desydwipuspitat306 named[493]: running  
Mar 21 10:55:42 desydwipuspitat306 named[493]: any newly configured zones are n  
Mar 21 10:55:42 desydwipuspitat306 named[493]: running  
Mar 21 10:55:48 desydwipuspitat306 named[493]: listening on IPv6 interface enp0  
  
root@desydwipuspitat306:/etc/bind# nano /etc/network/interfaces  
root@desydwipuspitat306:/etc/bind# ls  
bind.keys      db.255         named.conf      named.conf.options  
db.0           db.empty       named.conf.default-zones  rndc.key  
db.127        db.local       named.conf.local  zones.rfc1918  
root@desydwipuspitat306:/etc/bind#
```

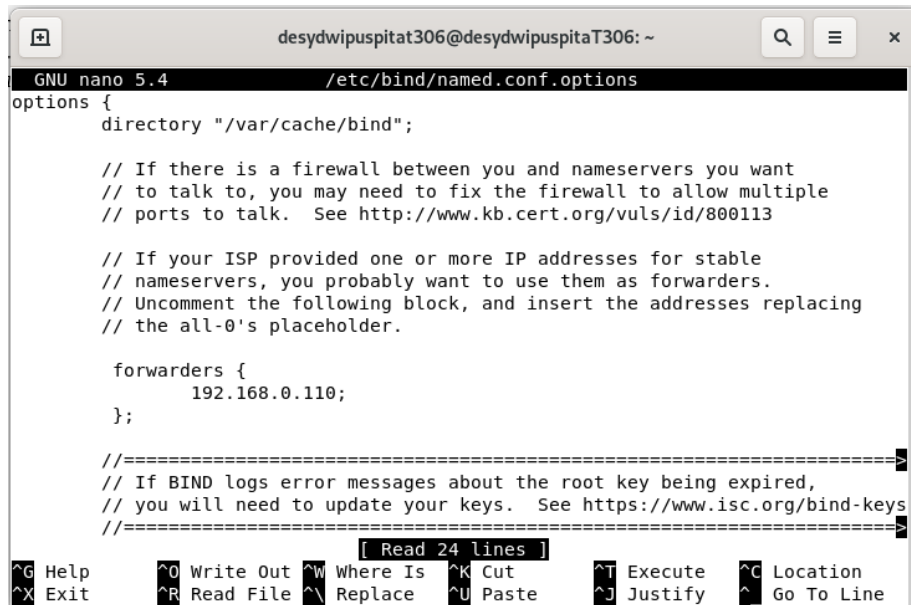
12. ganti ip anda dan nama kelas anda

```
desydwipuspitat306@desydwipuspitat306: ~  
GNU nano 5.4 named.conf.default-zones  
// prime the server with knowledge of the root servers  
zone "." {  
    type hint;  
    file "/usr/share/dns/root.hints";  
};  
  
// be authoritative for the localhost forward and reverse zones, and for  
// broadcast zones as per RFC 1912  
  
zone "desyt3.com" {  
    type master;  
    file "/etc/bind/db.desyt3";  
};  
  
zone "192.in-addr.arpa" {  
    type master;  
    file "/etc/bind/db.110";  
};  
  
zone "0.in-addr.arpa" {  
    type master;  
    file "/etc/bind/db.0";  
};  
  
[ Read 30 lines ]  
^G Help      ^O Write Out ^W Where Is  ^K Cut       ^T Execute   ^C Location  
^X Exit      ^R Read File ^N Replace   ^U Paste     ^J Justify   ^_ Go To Line
```

13. ketikkan domain dan alamat ip anda

```
desydwipuspitat306@desydwipuspitat306: ~  
GNU nano 5.4 db.desyt306  
; BIND data file for local loopback interface  
;  
$TTL      604800  
@         IN      SOA     localhost. root.localhost. (  
                2      ; Serial  
                604800 ; Refresh  
                86400  ; Retry  
                2419200; Expire  
                604800 ) ; Negative Cache TTL  
;  
@         IN      NS      localhost.  
@         IN      A       127.0.0.1  
@         IN      AAAA    ::1  
  
[ Read 14 lines ]  
^G Help      ^O Write Out ^W Where Is  ^K Cut       ^T Execute   ^C Location  
^X Exit      ^R Read File ^N Replace   ^U Paste     ^J Justify   ^_ Go To Line
```

14. Ketikkan nano /etc/bind/named.conf.options, kemudian ketikkan ip anda dibawah forwarders



```
desydwipuspat306@desydwipuspaT306: ~
GNU nano 5.4 /etc/bind/named.conf.options
options {
    directory "/var/cache/bind";

    // If there is a firewall between you and nameservers you want
    // to talk to, you may need to fix the firewall to allow multiple
    // ports to talk.  See http://www.kb.cert.org/vuls/id/800113

    // If your ISP provided one or more IP addresses for stable
    // nameservers, you probably want to use them as forwarders.
    // Uncomment the following block, and insert the addresses replacing
    // the all-0's placeholder.

    forwarders {
        192.168.0.110;
    };

    //=====================================================================
    // If BIND logs error messages about the root key being expired,
    // you will need to update your keys.  See https://www.isc.org/bind-keys
    //=====================================================================
}

[ Read 24 lines ]
^G Help      ^O Write Out ^W Where Is  ^K Cut      ^T Execute  ^C Location
^X Exit      ^R Read File ^\ Replace   ^U Paste     ^J Justify   ^_ Go To Line
```

15. Kemudian buka mozilla dan ketikkan nama domain yang telah anda buat

