Expt. No.	Name : **Piyush Pandurang Burate** Class : **IYCS** Roll No.: **523**
	Title of Experiment : **Initial Settings.**
Date	

Sub titles : Assignment/ Problem Solution, Flow chart/Algorithm, Problem Listing,
Input Screen, Output Screen, Comments (If any)

Aim :- Initial settings : Add a user, Network settings change to static IP address, disable IPV6 if not needed, configure service, display the list of services which are running stop and turn off autostart setting for a service if you don't need it, sudo settings.

Theory :-

- Ifconfig command :-
- ifconfig (interface configuration) command is used to configure the kernel - resident network interfaces.
- Also, this command is used to assign IP address and network to an interface or to enable or disable a given interface
  Syntax :- ifconfig -a

- /etc/network/interfaces describes the network interfaces.

- /etc/hostname/configures the name server credentials.

| Remark | |
| Signature | |

- /etc/hosts resolves IP addresses to hostnames once the new configuration is saved the interface must be restarted.

- Changing the hostname :-
  - To change the hostname to your preferred node name you have to edit the /etc/hostname file.

- Add a user
  - The useradd allows you to add a single user to the system
    $ sudo adduser

Initial Settings

#ifconfig

root@ubuntu-VirtualBox:~# ifconfig

enp0s3   Link encap:Ethernet HWaddr 08:00:27:6e:ba:12
          inet addr:10.0.2.15 Bcast:10.0.2.255 Mask:255.255.255.0
          inet6 addr: fe80::50b4:9798:b5f5:88/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
....

lo   Link encap:Local Loopback
          inet addr:127.0.0.1 Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
          UP LOOPBACK RUNNING MTU:65536 Metric:1
....

#Add a user :

root@ubuntu-VirtualBox:~# sudo adduser ubuntu9

Adding user `ubuntu9' ...

Creating home directory `/home/ubuntu9' ...

Copying files from `/etc/skel' ...

Enter new UNIX password:

Retype new UNIX password:

passwd: password updated successfully

Changing the user information for ubuntu9

Enter the new value, or press ENTER for the default

        Full Name []:Room Number []: Work Phone []: Home Phone []: Other []: ...

Is the information correct? [Y/n] Y

#Privileges

root@ubuntu-VirtualBox:~# sudo usermod -G sudo ubuntu9

root@ubuntu-VirtualBox:~# su - ubuntu

root@ubuntu-VirtualBox:~# su - ubuntu9

To run a command as administrator (user "root"), use "sudo <command>".See "man sudo_root" for details.

ubuntu9@ubuntu-VirtualBox:~$ sudo reboot

[sudo] password for ubuntu9:

#Network Settings

sudo nano /etc/network/interfaces

auto loauto ens3

netmask 255.255.255.0

broadcast 10.0.0.255

...

gateway 10.0.0.1

dns-nameservers 10.0.0.10

```
root@ubuntu-VirtualBox:~# sudo reboot
root@ubuntu-VirtualBox:~# echo "net.ipv6.conf.all.disable_ipv6">>/etc/syctl.conf
root@ubuntu-VirtualBox:~# sysctl -p
root@ubuntu-VirtualBox:~# ip addr
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default
qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00.....
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP
group default qlen 1000.....
3: enp0s8: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP
group default qlen 1000...
```

#Configure Services

```
root@ubuntu-VirtualBox:~# systemctl -t service
UNIT                    LOAD  ACTIVE SUB    DESCRIPTION
accounts-daemon.service    loaded active running Accounts Service
acpid.service           loaded active running ACPI event daemon
.....
ntp.service             loaded active running LSB: Start NTP daemon
root@ubuntu-VirtualBox:~# systemctl list-unit-files -t service
UNIT FILE               STATE
accounts-daemon.service         enabled
.....
colord.service                  static
lines 1-23
```

```
root@ubuntu-VirtualBox:~# systemctl stop apparmor
root@ubuntu-VirtualBox:~# systemctl disable apparmor
apparmor.service is not a native service, redirecting to systemd-sysv-install
Executing /lib/systemd/systemd-sysv-install disable apparmor
insserv: warning: current start runlevel(s) (empty) of script `apparmor' overrides LSB defaults (S).
insserv: warning: current stop runlevel(s) (S) of script `apparmor' overrides LSB defaults (empty).
```

#Sudo Settings

```
root@ubuntu-VirtualBox:~# apt-get -y install sudo
Reading package lists... DoneBuilding dependency tree
Reading state information... Done
The following packages will be upgraded:
sudo......
Setting up sudo (1.8.16-0ubuntu1.10) ...
root@ubuntu-VirtualBox:~# visudo
```

# add alias for the kind of shutdown commands # Cmnd alias specification Cmnd_Alias
SHUTDOWN = /sbin/halt, /sbin/shutdown, \
root@ubuntu-VirtualBox:~# sudo /sbin/shutdown -r now
Cmnd alias specification Cmnd_Alias USERMGR = /usr/sbin/adduser, /usr/sbin/useradd,
/usr/sbin/newusers, \ /usr/sbin/deluser, /usr/sbin/userdel, /usr/sbin/usermod, /usr/bin/passwd # add to
the end
root@ubuntu-VirtualBox:~# groupadd usermgr
root@ubuntu-VirtualBox:~# sudo nano /etc/group
root@ubuntu-VirtualBox:~# sudo /usr/sbin/useradd testuser
root@ubuntu-VirtualBox:~# sudo /usr/bin/passwd testuser
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
root@ubuntu-VirtualBox:~# sudo /usr/sbin/visudo
root@ubuntu-VirtualBox:~# sudo nano /etc/rsyslog.d/50-default.conf

#**Update System**
root@ubuntu-VirtualBox:~# apt-get update
Get:1 http://security.ubuntu.com/ubuntu xenial-security InRelease [99.8 kB]
.....
Reading package lists... Done
root@ubuntu-VirtualBox:~# apt-get -y upgrade
Reading package lists... Done
Building dependency tree
Reading state information... Done
Calculating upgrade... Done
The following package was automatically installed and is no longer required:
......
libcupsmime1 libcupsppdc1 libcurl3 libcurl3-gnutls libdb5.3 libdbus-1-3
libdecoration0 libdfu1 libdjvulibre-text libdjvulibre21 libdns-export162
libdns162 libdpkg-perl libdrm-amdgpu1 libdrm-common libdrm-intel1
libdrm-nouveau2 libdrm-ra libdrm-common libdrm-intel1