1) created and edited text file using nano ,vi and vim command

```
einfochips@PUNELPT0393:~/Desktop/learning/8july$ nano server_config.txt
einfochips@PUNELPT0393:~/Desktop/learning/8july$ vi server_config.txt
einfochips@PUNELPT0393:~/Desktop/learning/8july$ vim server_config.txt
einfochips@PUNELPT0393:~/Desktop/learning/8july$ cat server_config.txt
Server Name : WebServer01
IP Address: 192.168.1.100
OS:Ubuntu 20.04

Installed Packages: Apache, MySQL, PHP

Configuration Complete: Yes
```

2) added developer user account

```
einfochips@PUNELPT0393:~/Desktop/learning/8july$ sudo adduser developer
Adding user `developer' ...
Adding new group `developer' (1000) ...
Adding new user `developer' (1000) with group `developer' ...
The home directory `/home/developer' already exists.  Not copying from `/etc/skel'.
New password:
Retype new password:
No password supplied
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for developer
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
```

3) Added user developer in devteam group and then remove the developer from devteam group

```
einfochips@PUNELPT0393:~/Desktop/learning/8july$ sudo usermod -aG devteam developer
```

```
einfochips@PUNELPT0393:~/Desktop/learning/8july$ sudo gpasswd -d developer devteam
Removing user developer from group devteam
gpasswd: user 'developer' is not a member of 'devteam'
```

4) Remove user developer

```
einfochips@PUNELPT0393:~/Desktop/learning/8july$ sudo deluser developer
Removing user `developer' ...
Warning: group `developer' has no more members.
Done.
```

5) View permission of file

```
einfochips@PUNELPT0393:~/Desktop/learning/8july$ ls -l server_config.txt
-rw-rw-r-- 1 einfochips einfochips 138 Jul  9 10:39 server_config.txt
```

6) Change permissions to read and write for the owner and read-only for others and verify using ls -l command

```
einfochips@PUNELPT0393:~/Desktop/learning/8july$ chmod 644 server_config.txt
einfochips@PUNELPT0393:~/Desktop/learning/8july$ ls -l server_config.txt
-rw-r--r-- 1 einfochips einfochips 138 Jul  9 10:39 server_config.txt
```

**Creating and Deploying a Static Website with Apache2**

1) we install the apache2
2) After installation we enable the apache

```
einfochips@PUNELPT0393:~$ sudo systemctl enable apache2
Synchronizing state of apache2.service with SysV service script with /lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable apache2
```

3) start  and check the status of apache

```
einfochips@PUNELPT0393:~$ sudo systemctl start apache2
einfochips@PUNELPT0393:~$ sudo systemctl status apache2
● apache2.service - The Apache HTTP Server
     Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
     Active: active (running) since Tue 2024-07-09 11:33:53 IST; 16s ago
       Docs: https://httpd.apache.org/docs/2.4/
    Process: 85893 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
   Main PID: 85897 (apache2)
      Tasks: 55 (limit: 18810)
     Memory: 5.0M
     CGroup: /system.slice/apache2.service
             ├─85897 /usr/sbin/apache2 -k start
             ├─85898 /usr/sbin/apache2 -k start
             └─85899 /usr/sbin/apache2 -k start

Jul 09 11:33:53 PUNELPT0393 systemd[1]: Starting The Apache HTTP Server...
Jul 09 11:33:53 PUNELPT0393 apachectl[85896]: AH00558: apache2: Could not reliably determine the ser>
Jul 09 11:33:53 PUNELPT0393 systemd[1]: Started The Apache HTTP Server.
```