<p align="center">**SYSTEM DESIGN LAB**</p>

Experiment no: 3   **Anagha P S**

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                                                        MCA S4

Create bulk users with loginID and password. Create directories for each user , create files in bulk and change the file permissions recursively

Adding a single new user to a Linux system can be achieved through the useradd command. But system admins often get request to add many users. So Linux provides a different to do a bulk addition of many users to a system.This is the newusers command.

Syntax

sudo newusers users.txt

users.txt is the file containing the details of all the usernames to be added

```
anagha@DESKTOP-UPC86F2:~$ echo U1:U1:1003:1005::/home/U1:/bin/sh >users.txt
anagha@DESKTOP-UPC86F2:~$ echo U2:U2:1004:1006::/home/U2:/bin/sh >>users.txt
anagha@DESKTOP-UPC86F2:~$ cat users.txt
U1:U1:1003:1005::/home/U1:/bin/sh
U2:U2:1004:1006::/home/U2:/bin/sh
anagha@DESKTOP-UPC86F2:~$ sudo newusers users.txt
anagha@DESKTOP-UPC86F2:~$ tail -3 /etc/passwd
A0:x:1002:1004::/home/A0:/bin/sh
U1:x:1003:1005::/home/U1:/bin/sh
U2:x:1004:1006::/home/U2:/bin/sh
```

Giving Permissions to the User Details File

Before we sue the user details file to add new users, we should give permission to it to be read by other processes.

```
anagha@DESKTOP-UPC86F2:~$ sudo mkdir bulk1
anagha@DESKTOP-UPC86F2:~$ cd bulk1
anagha@DESKTOP-UPC86F2:~/bulk1$ sudo touch {a..d}.txt
anagha@DESKTOP-UPC86F2:~/bulk1$ ls -l
total 0
-rw-r--r-- 1 root root 0 Apr 30 19:23 a.txt
-rw-r--r-- 1 root root 0 Apr 30 19:23 b.txt
-rw-r--r-- 1 root root 0 Apr 30 19:23 c.txt
-rw-r--r-- 1 root root 0 Apr 30 19:23 d.txt
anagha@DESKTOP-UPC86F2:~/bulk1$ sudo mkdir bulk2
anagha@DESKTOP-UPC86F2:~/bulk1$ cd bulk2
anagha@DESKTOP-UPC86F2:~/bulk1/bulk2$ sudo touch {1..5}.txt
anagha@DESKTOP-UPC86F2:~/bulk1/bulk2$ ls -l
total 0
-rw-r--r-- 1 root root 0 Apr 30 19:24 1.txt
-rw-r--r-- 1 root root 0 Apr 30 19:24 2.txt
-rw-r--r-- 1 root root 0 Apr 30 19:24 3.txt
-rw-r--r-- 1 root root 0 Apr 30 19:24 4.txt
-rw-r--r-- 1 root root 0 Apr 30 19:24 5.txt
```

```
anagha@DESKTOP-UPC86F2:~$ sudo chmod -R 777 bulk1
[sudo] password for anagha:
```

```
anagha@DESKTOP-UPC86F2:~$ cd bulk1
anagha@DESKTOP-UPC86F2:~/bulk1$ ls -l
total 0
-rwxrwxrwx 1 root root    0 Apr 30 19:23 a.txt
-rwxrwxrwx 1 root root    0 Apr 30 19:23 b.txt
drwxrwxrwx 1 root root 4096 Apr 30 19:24 bulk2
-rwxrwxrwx 1 root root    0 Apr 30 19:23 c.txt
-rwxrwxrwx 1 root root    0 Apr 30 19:23 d.txt
anagha@DESKTOP-UPC86F2:~/bulk1$ sudo chmod -R 777 bulk2
anagha@DESKTOP-UPC86F2:~/bulk1$ cd bulk2
anagha@DESKTOP-UPC86F2:~/bulk1/bulk2$ ls -l
total 0
-rwxrwxrwx 1 root root 0 Apr 30 19:24 1.txt
-rwxrwxrwx 1 root root 0 Apr 30 19:24 2.txt
-rwxrwxrwx 1 root root 0 Apr 30 19:24 3.txt
-rwxrwxrwx 1 root root 0 Apr 30 19:24 4.txt
-rwxrwxrwx 1 root root 0 Apr 30 19:24 5.txt
anagha@DESKTOP-UPC86F2:~/bulk1/bulk2$
```