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(इस्लिंग्टन कलेज)

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*I confirm that I understand my coursework needs to be submitted online via MST Classroom under the relevant module page before the deadline in order for my assignment to be accepted and marked. I am fully aware that late submissions will be treated as non-submission and a mark of zero will be awarded.*

**Aim:**

To showcase the execution of Linux commands in Debian for tasks such as user identification, file handling, and directory management in a step-by-step manner.

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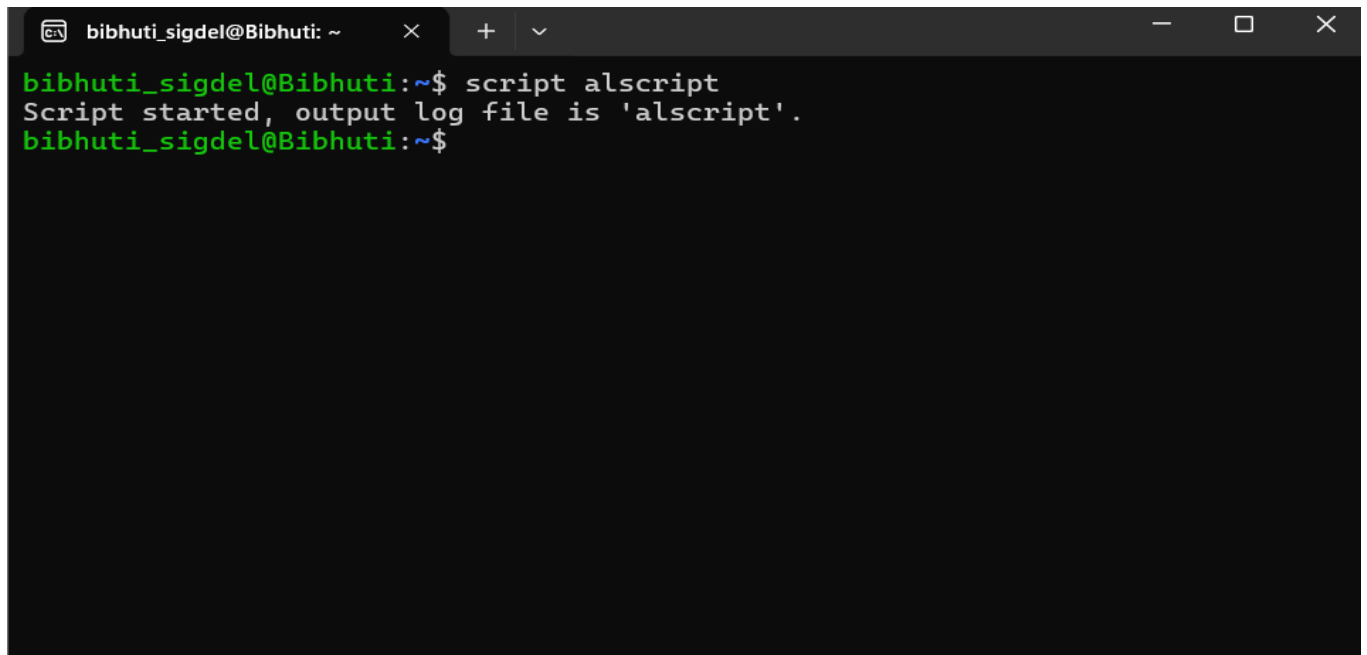
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## Steps required:

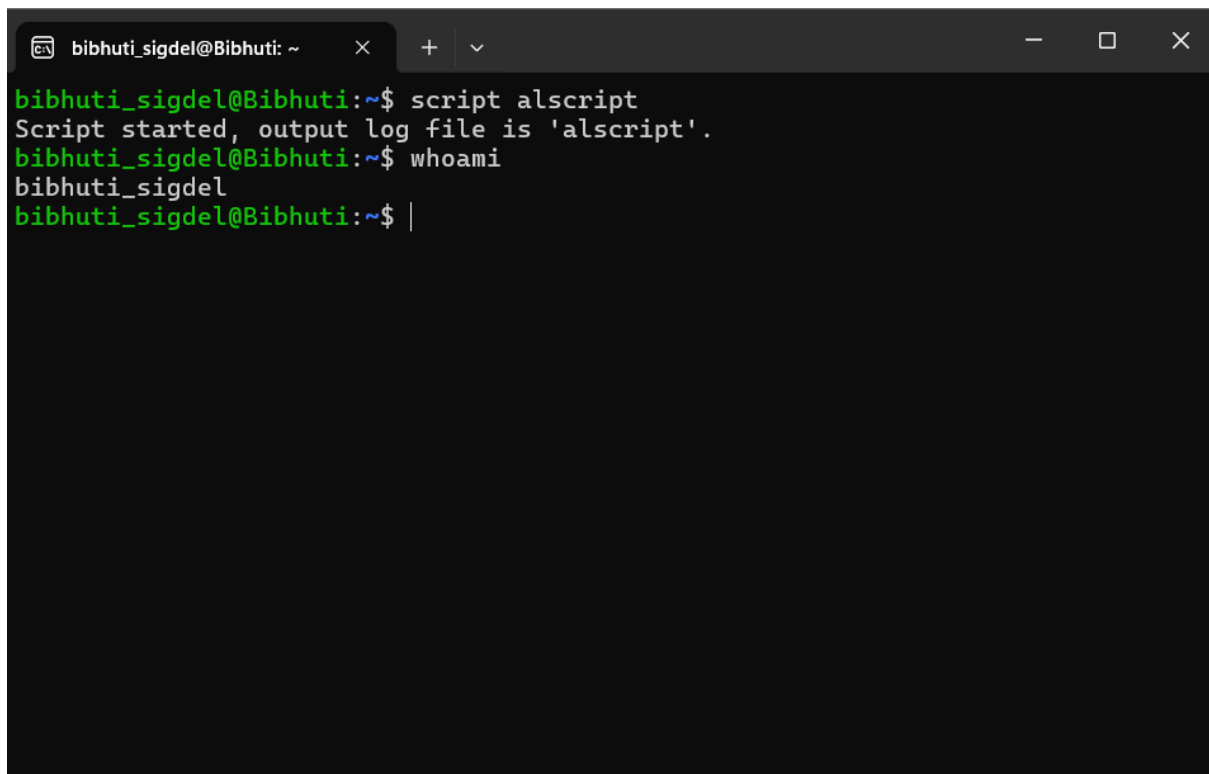
Step 1: Write “Script alscript” on Debian to start script



```
bibhuti_sigdel@Bibhuti: ~  
bibhuti_sigdel@Bibhuti:~$ script alscript  
Script started, output log file is 'alscript'.  
bibhuti_sigdel@Bibhuti:~$
```

Figure 1:Script alscript

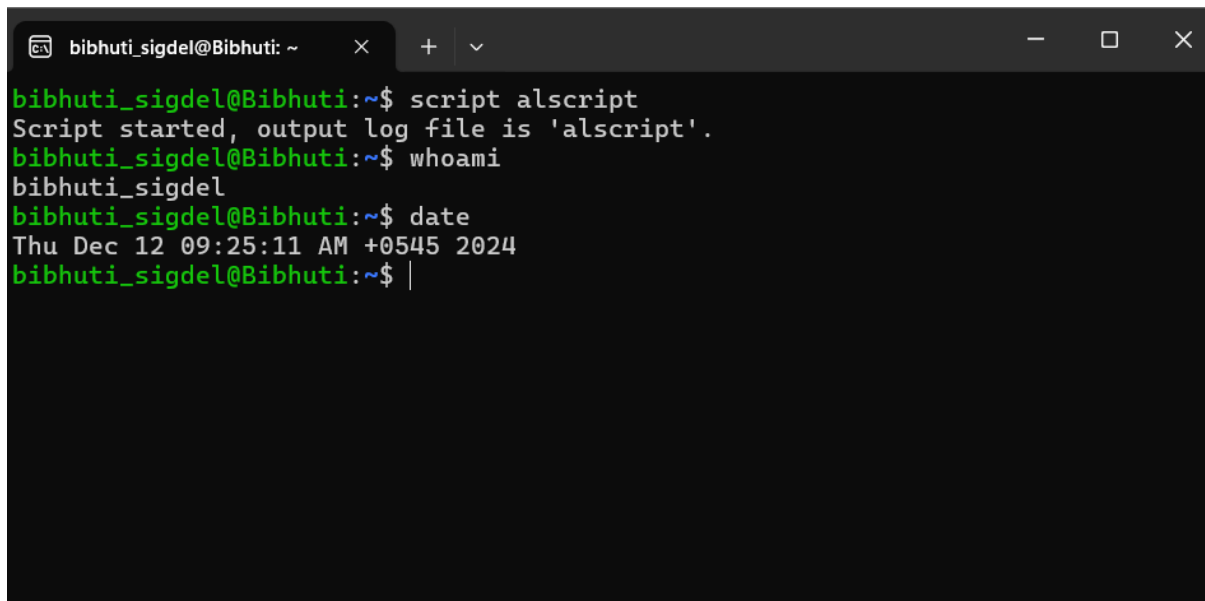
Step 2: Type “whoami” command to see username.



```
bibhuti_sigdel@Bibhuti: ~  
bibhuti_sigdel@Bibhuti:~$ script alscript  
Script started, output log file is 'alscript'.  
bibhuti_sigdel@Bibhuti:~$ whoami  
bibhuti_sigdel  
bibhuti_sigdel@Bibhuti:~$ |
```

Figure 2: whoami to see username

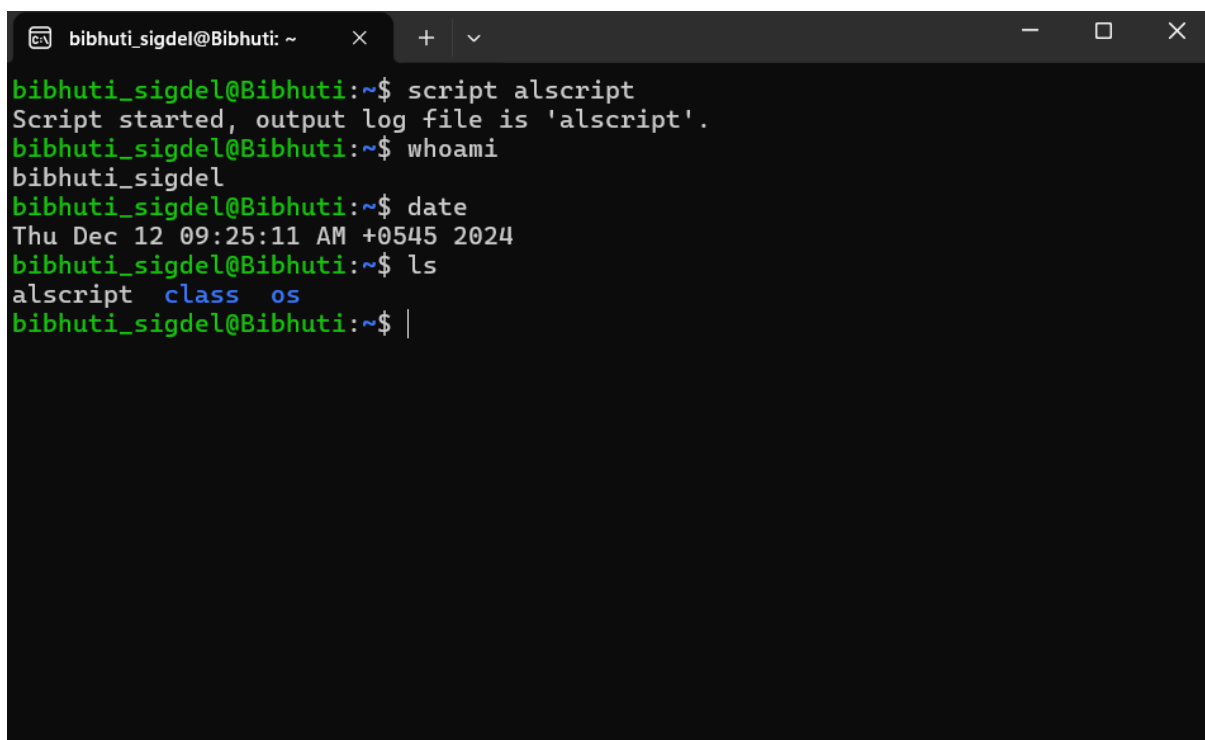
Step 3: Type “date” command to see current date.

A terminal window titled 'bibhuti\_sigdel@Bibhuti: ~' with standard window controls. The terminal shows a sequence of commands: 'script alscript' (output: 'Script started, output log file is 'alscript''), 'whoami' (output: 'bibhuti\_sigdel'), and 'date' (output: 'Thu Dec 12 09:25:11 AM +0545 2024'). The prompt is currently at the end of the 'date' output line.

```
bibhuti_sigdel@Bibhuti: ~  
bibhuti_sigdel@Bibhuti:~$ script alscript  
Script started, output log file is 'alscript'.  
bibhuti_sigdel@Bibhuti:~$ whoami  
bibhuti_sigdel  
bibhuti_sigdel@Bibhuti:~$ date  
Thu Dec 12 09:25:11 AM +0545 2024  
bibhuti_sigdel@Bibhuti:~$ |
```

Figure 3: “date” to see current date

Step 4: Type command “LS” to list directory to display current directory’s visible files and folders.

A terminal window titled 'bibhuti\_sigdel@Bibhuti: ~' with standard window controls. The terminal shows a sequence of commands: 'script alscript' (output: 'Script started, output log file is 'alscript''), 'whoami' (output: 'bibhuti\_sigdel'), 'date' (output: 'Thu Dec 12 09:25:11 AM +0545 2024'), and 'ls' (output: 'alscript class os'). The prompt is currently at the end of the 'ls' output line.

```
bibhuti_sigdel@Bibhuti: ~  
bibhuti_sigdel@Bibhuti:~$ script alscript  
Script started, output log file is 'alscript'.  
bibhuti_sigdel@Bibhuti:~$ whoami  
bibhuti_sigdel  
bibhuti_sigdel@Bibhuti:~$ date  
Thu Dec 12 09:25:11 AM +0545 2024  
bibhuti_sigdel@Bibhuti:~$ ls  
alscript class os  
bibhuti_sigdel@Bibhuti:~$ |
```

Figure 4: “ls” command to display current directory

Step 5: Type “ls -a” command as it shows hidden files and directories among all files.

```
bibhuti_sigdel@Bibhuti: ~  
bibhuti_sigdel@Bibhuti:~$ script alscript  
Script started, output log file is 'alscript'.  
bibhuti_sigdel@Bibhuti:~$ whoami  
bibhuti_sigdel  
bibhuti_sigdel@Bibhuti:~$ date  
Thu Dec 12 09:25:11 AM +0545 2024  
bibhuti_sigdel@Bibhuti:~$ ls  
alscript  class  os  
bibhuti_sigdel@Bibhuti:~$ ls -a  
.  ..  alscript  .bash_history  .bash_logout  .bashrc  class  os  .profile  
bibhuti_sigdel@Bibhuti:~$ |
```

Figure 5: "ls -a" command to show hidden files and directories

Step 6: Type command "ls -a -l" as it will provide a comprehensive list of all directories and files, even hidden ones.

```
bibhuti_sigdel@Bibhuti: ~  
bibhuti_sigdel@Bibhuti:~$ script alscript  
Script started, output log file is 'alscript'.  
bibhuti_sigdel@Bibhuti:~$ whoami  
bibhuti_sigdel  
bibhuti_sigdel@Bibhuti:~$ date  
Thu Dec 12 09:25:11 AM +0545 2024  
bibhuti_sigdel@Bibhuti:~$ ls  
alscript  class  os  
bibhuti_sigdel@Bibhuti:~$ ls -a  
.  ..  alscript  .bash_history  .bash_logout  .bashrc  class  os  .profile  
bibhuti_sigdel@Bibhuti:~$ ls -a -l  
total 32  
drwx----- 4 bibhuti_sigdel bibhuti_sigdel 4096 Dec 12 09:23 .  
drwxr-xr-x 3 root          root          4096 Dec  6 09:35 ..  
-rw-r--r-- 1 bibhuti_sigdel bibhuti_sigdel    0 Dec 12 09:23 alscript  
-rw----- 1 bibhuti_sigdel bibhuti_sigdel   70 Dec  6 10:08 .bash_history  
-rw-r--r-- 1 bibhuti_sigdel bibhuti_sigdel  220 Dec  6 09:35 .bash_logout  
-rw-r--r-- 1 bibhuti_sigdel bibhuti_sigdel 3526 Dec  6 09:35 .bashrc  
drwxr-xr-x 2 bibhuti_sigdel bibhuti_sigdel 4096 Dec  6 09:44 class  
drwxr-xr-x 2 bibhuti_sigdel bibhuti_sigdel 4096 Dec  6 09:47 os  
-rw-r--r-- 1 bibhuti_sigdel bibhuti_sigdel  807 Dec  6 09:35 .profile  
bibhuti_sigdel@Bibhuti:~$ |
```

Figure 6: "ls -a -l" command to provide comprehensive list of all hidden directories and file

Step 7: Type "cat/etc/passwd" command.

```
bibhuti_sigdel@Bibhuti: ~  
bibhuti_sigdel@Bibhuti:~$ script alscript  
Script started, output log file is 'alscript'.  
bibhuti_sigdel@Bibhuti:~$ whoami  
bibhuti_sigdel  
bibhuti_sigdel@Bibhuti:~$ date  
Thu Dec 12 09:25:11 AM +0545 2024  
bibhuti_sigdel@Bibhuti:~$ ls  
alscript class os  
bibhuti_sigdel@Bibhuti:~$ ls -a  
. .. alscript .bash_history .bash_logout .bashrc class os .profile  
bibhuti_sigdel@Bibhuti:~$ ls -a -l  
total 32  
drwx----- 4 bibhuti_sigdel bibhuti_sigdel 4096 Dec 12 09:23 .  
drwxr-xr-x 3 root root 4096 Dec 6 09:35 ..  
-rw-r--r-- 1 bibhuti_sigdel bibhuti_sigdel 0 Dec 12 09:23 alscript  
-rw----- 1 bibhuti_sigdel bibhuti_sigdel 70 Dec 6 10:08 .bash_history  
-rw-r--r-- 1 bibhuti_sigdel bibhuti_sigdel 220 Dec 6 09:35 .bash_logout  
-rw-r--r-- 1 bibhuti_sigdel bibhuti_sigdel 3526 Dec 6 09:35 .bashrc  
drwxr-xr-x 2 bibhuti_sigdel bibhuti_sigdel 4096 Dec 6 09:44 class  
drwxr-xr-x 2 bibhuti_sigdel bibhuti_sigdel 4096 Dec 6 09:47 os  
-rw-r--r-- 1 bibhuti_sigdel bibhuti_sigdel 807 Dec 6 09:35 .profile  
bibhuti_sigdel@Bibhuti:~$ cat /etc/passwd  
root:x:0:0:root:/root:/bin/bash  
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin  
bin:x:2:2:bin:/bin:/usr/sbin/nologin  
sys:x:3:3:sys:/dev:/usr/sbin/nologin  
sync:x:4:65534:sync:/bin:/bin/sync  
games:x:5:60:games:/usr/games:/usr/sbin/nologin  
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin  
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin  
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin  
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin  
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin  
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin  
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin  
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin  
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin  
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin  
_apt:x:42:65534:/:nonexistent:/usr/sbin/nologin  
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin  
systemd-network:x:998:998:systemd Network Management:/:/usr/sbin/nologin  
bibhuti_sigdel:x:1000:1000:,,,:/home/bibhuti_sigdel:/bin/bash  
bibhuti_sigdel@Bibhuti:~$ |
```

Figure 7: "cat/etc/passwd" command

Step 8: Type "echo "This is one-line file" > test1".



```
bibhuti_sigdel@Bibhuti: ~  
bibhuti_sigdel  
bibhuti_sigdel@Bibhuti:~$ date  
Thu Dec 12 09:25:11 AM +0545 2024  
bibhuti_sigdel@Bibhuti:~$ ls  
alscript class os  
bibhuti_sigdel@Bibhuti:~$ ls -a  
. .. alscript .bash_history .bash_logout .bashrc class os .profile  
bibhuti_sigdel@Bibhuti:~$ ls -a -l  
total 32  
drwx----- 4 bibhuti_sigdel bibhuti_sigdel 4096 Dec 12 09:23 .  
drwxr-xr-x 3 root root 4096 Dec 6 09:35 ..  
-rw-r--r-- 1 bibhuti_sigdel bibhuti_sigdel 0 Dec 12 09:23 alscript  
-rw----- 1 bibhuti_sigdel bibhuti_sigdel 70 Dec 6 10:08 .bash_history  
-rw-r--r-- 1 bibhuti_sigdel bibhuti_sigdel 220 Dec 6 09:35 .bash_logout  
-rw-r--r-- 1 bibhuti_sigdel bibhuti_sigdel 3526 Dec 6 09:35 .bashrc  
drwxr-xr-x 2 bibhuti_sigdel bibhuti_sigdel 4096 Dec 6 09:44 class  
drwxr-xr-x 2 bibhuti_sigdel bibhuti_sigdel 4096 Dec 6 09:47 os  
-rw-r--r-- 1 bibhuti_sigdel bibhuti_sigdel 807 Dec 6 09:35 .profile  
bibhuti_sigdel@Bibhuti:~$ cat /etc/passwd  
root:x:0:0:root:/root:/bin/bash  
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin  
bin:x:2:2:bin:/bin:/usr/sbin/nologin  
sys:x:3:3:sys:/dev:/usr/sbin/nologin  
sync:x:4:65534:sync:/bin:/bin/sync  
games:x:5:60:games:/usr/games:/usr/sbin/nologin  
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin  
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin  
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin  
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin  
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin  
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin  
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin  
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin  
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin  
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin  
_apt:x:42:65534:/:nonexistent:/usr/sbin/nologin  
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin  
systemd-network:x:998:998:systemd Network Management:/:/usr/sbin/nologin  
bibhuti_sigdel:x:1000:1000:,,,:/home/bibhuti_sigdel:/bin/bash  
bibhuti_sigdel@Bibhuti:~$ echo "This is a one-line file"  
This is a one-line file  
bibhuti_sigdel@Bibhuti:~$ echo "This is a one-line file" > test1  
bibhuti_sigdel@Bibhuti:~$ |
```

Figure 8: "echo "This is one-line file" > test1"

Step 9: Type "cat > test2" command.

```
bibhuti_sigdel@Bibhuti: ~  
bibhuti_sigdel@Bibhuti:~$ date  
Thu Dec 12 09:25:11 AM +0545 2024  
bibhuti_sigdel@Bibhuti:~$ ls  
alscript class os  
bibhuti_sigdel@Bibhuti:~$ ls -a  
. .. alscript .bash_history .bash_logout .bashrc class os .profile  
bibhuti_sigdel@Bibhuti:~$ ls -a -l  
total 32  
drwx----- 4 bibhuti_sigdel bibhuti_sigdel 4096 Dec 12 09:23 .  
drwxr-xr-x 3 root root 4096 Dec 6 09:35 ..  
-rw-r--r-- 1 bibhuti_sigdel bibhuti_sigdel 0 Dec 12 09:23 alscript  
-rw----- 1 bibhuti_sigdel bibhuti_sigdel 70 Dec 6 10:08 .bash_history  
-rw-r--r-- 1 bibhuti_sigdel bibhuti_sigdel 220 Dec 6 09:35 .bash_logout  
-rw-r--r-- 1 bibhuti_sigdel bibhuti_sigdel 3526 Dec 6 09:35 .bashrc  
drwxr-xr-x 2 bibhuti_sigdel bibhuti_sigdel 4096 Dec 6 09:44 class  
drwxr-xr-x 2 bibhuti_sigdel bibhuti_sigdel 4096 Dec 6 09:47 os  
-rw-r--r-- 1 bibhuti_sigdel bibhuti_sigdel 807 Dec 6 09:35 .profile  
bibhuti_sigdel@Bibhuti:~$ cat /etc/passwd  
root:x:0:0:root:/root:/bin/bash  
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin  
bin:x:2:2:bin:/bin:/usr/sbin/nologin  
sys:x:3:3:sys:/dev:/usr/sbin/nologin  
sync:x:4:65534:sync:/bin:/bin/sync  
games:x:5:60:games:/usr/games:/usr/sbin/nologin  
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin  
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin  
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin  
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin  
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin  
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin  
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin  
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin  
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin  
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin  
_apt:x:42:65534:/:nonexistent:/usr/sbin/nologin  
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin  
systemd-network:x:998:998:systemd Network Management:/:usr/sbin/nologin  
bibhuti_sigdel:x:1000:1000:,,,:/home/bibhuti_sigdel:/bin/bash  
bibhuti_sigdel@Bibhuti:~$ echo "This is a one-line file"  
This is a one-line file  
bibhuti_sigdel@Bibhuti:~$ echo "This is a one-line file" > test1  
bibhuti_sigdel@Bibhuti:~$ cat > test2  
|
```

Figure 9: "cat > test2" command

Step 10: Typing command in test 2.

```
alscript class os
bibhuti_sigdel@Bibhuti:~$ ls -a
. .. alscript .bash_history .bash_logout .bashrc class os .profile
bibhuti_sigdel@Bibhuti:~$ ls -a -l
total 32
drwx----- 4 bibhuti_sigdel bibhuti_sigdel 4096 Dec 12 09:23 .
drwxr-xr-x 3 root root 4096 Dec 6 09:35 ..
-rw-r--r-- 1 bibhuti_sigdel bibhuti_sigdel 0 Dec 12 09:23 alscript
-rw----- 1 bibhuti_sigdel bibhuti_sigdel 70 Dec 6 10:08 .bash_history
-rw-r--r-- 1 bibhuti_sigdel bibhuti_sigdel 220 Dec 6 09:35 .bash_logout
-rw-r--r-- 1 bibhuti_sigdel bibhuti_sigdel 3526 Dec 6 09:35 .bashrc
drwxr-xr-x 2 bibhuti_sigdel bibhuti_sigdel 4096 Dec 6 09:44 class
drwxr-xr-x 2 bibhuti_sigdel bibhuti_sigdel 4096 Dec 6 09:47 os
-rw-r--r-- 1 bibhuti_sigdel bibhuti_sigdel 807 Dec 6 09:35 .profile
bibhuti_sigdel@Bibhuti:~$ cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
_apt:x:42:65534:/:nonexistent:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:998:998:systemd Network Management:/:/usr/sbin/nologin
bibhuti_sigdel:x:1000:1000:,,,:/home/bibhuti_sigdel:/bin/bash
bibhuti_sigdel@Bibhuti:~$ echo "This is a one-line file"
This is a one-line file
bibhuti_sigdel@Bibhuti:~$ echo "This is a one-line file" > test1
bibhuti_sigdel@Bibhuti:~$ cat > test2
This is a file two
It has several line
Three lines, in fact
bibhuti_sigdel@Bibhuti:~$ |
```

Figure 10: command in cat

Step 11: Type “cat test1 test2 > test3” command

```
bibhuti_sigdel@Bibhuti: ~  
bibhuti_sigdel@Bibhuti:~$ ls -a  
. .. alscrypt .bash_history .bash_logout .bashrc class os .profile  
bibhuti_sigdel@Bibhuti:~$ ls -a -l  
total 32  
drwx----- 4 bibhuti_sigdel bibhuti_sigdel 4096 Dec 12 09:23 .  
drwxr-xr-x 3 root root 4096 Dec 6 09:35 ..  
-rw-r--r-- 1 bibhuti_sigdel bibhuti_sigdel 0 Dec 12 09:23 alscrypt  
-rw----- 1 bibhuti_sigdel bibhuti_sigdel 70 Dec 6 10:08 .bash_history  
-rw-r--r-- 1 bibhuti_sigdel bibhuti_sigdel 220 Dec 6 09:35 .bash_logout  
-rw-r--r-- 1 bibhuti_sigdel bibhuti_sigdel 3526 Dec 6 09:35 .bashrc  
drwxr-xr-x 2 bibhuti_sigdel bibhuti_sigdel 4096 Dec 6 09:44 class  
drwxr-xr-x 2 bibhuti_sigdel bibhuti_sigdel 4096 Dec 6 09:47 os  
-rw-r--r-- 1 bibhuti_sigdel bibhuti_sigdel 807 Dec 6 09:35 .profile  
bibhuti_sigdel@Bibhuti:~$ cat /etc/passwd  
root:x:0:0:root:/root:/bin/bash  
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin  
bin:x:2:2:bin:/bin:/usr/sbin/nologin  
sys:x:3:3:sys:/dev:/usr/sbin/nologin  
sync:x:4:65534:sync:/bin:/bin/sync  
games:x:5:60:games:/usr/games:/usr/sbin/nologin  
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin  
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin  
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin  
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin  
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin  
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin  
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin  
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin  
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin  
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin  
_apt:x:42:65534:/:nonexistent:/usr/sbin/nologin  
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin  
systemd-network:x:998:998:systemd Network Management:/:/usr/sbin/nologin  
bibhuti_sigdel:x:1000:1000:,,,:/home/bibhuti_sigdel:/bin/bash  
bibhuti_sigdel@Bibhuti:~$ echo "This is a one-line file"  
This is a one-line file  
bibhuti_sigdel@Bibhuti:~$ echo "This is a one-line file" > test1  
bibhuti_sigdel@Bibhuti:~$ cat > test2  
This is a file two  
It has several line  
Three lines, in fact  
bibhuti_sigdel@Bibhuti:~$ cat test1 test2 > test3  
bibhuti_sigdel@Bibhuti:~$ |
```

Figure 11: "cat test1 test2 > test3"

Step 12: Type "mkdir -p Nepal/ {Bagmati/ {Kathmandu, Rasuwa}, Gandaki/ {Kaski,Gorkha}"

```
bibhuti_sigdel@Bibhuti: ~  
bibhuti_sigdel@Bibhuti:~$ ls -a -l  
total 32  
drwx----- 4 bibhuti_sigdel bibhuti_sigdel 4096 Dec 12 09:23 .  
drwxr-xr-x 3 root root 4096 Dec 6 09:35 ..  
-rw-r--r-- 1 bibhuti_sigdel bibhuti_sigdel 0 Dec 12 09:23 alscript  
-rw----- 1 bibhuti_sigdel bibhuti_sigdel 70 Dec 6 10:08 .bash_history  
-rw-r--r-- 1 bibhuti_sigdel bibhuti_sigdel 220 Dec 6 09:35 .bash_logout  
-rw-r--r-- 1 bibhuti_sigdel bibhuti_sigdel 3526 Dec 6 09:35 .bashrc  
drwxr-xr-x 2 bibhuti_sigdel bibhuti_sigdel 4096 Dec 6 09:44 class  
drwxr-xr-x 2 bibhuti_sigdel bibhuti_sigdel 4096 Dec 6 09:47 os  
-rw-r--r-- 1 bibhuti_sigdel bibhuti_sigdel 807 Dec 6 09:35 .profile  
bibhuti_sigdel@Bibhuti:~$ cat /etc/passwd  
root:x:0:0:root:/root:/bin/bash  
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin  
bin:x:2:2:bin:/bin:/usr/sbin/nologin  
sys:x:3:3:sys:/dev:/usr/sbin/nologin  
sync:x:4:65534:sync:/bin:/bin/sync  
games:x:5:60:games:/usr/games:/usr/sbin/nologin  
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin  
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin  
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin  
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin  
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin  
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin  
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin  
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin  
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin  
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin  
_apt:x:42:65534:/:nonexistent:/usr/sbin/nologin  
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin  
systemd-network:x:998:998:systemd Network Management:/:/usr/sbin/nologin  
bibhuti_sigdel:x:1000:1000:,,,:/home/bibhuti_sigdel:/bin/bash  
bibhuti_sigdel@Bibhuti:~$ echo "This is a one-line file"  
This is a one-line file  
bibhuti_sigdel@Bibhuti:~$ echo "This is a one-line file" > test1  
bibhuti_sigdel@Bibhuti:~$ cat > test2  
This is a file two  
It has several line  
Three lines, in fact  
bibhuti_sigdel@Bibhuti:~$ cat test1 test2 > test3  
bibhuti_sigdel@Bibhuti:~$ mkdir -p Nepal/{Bagmati/{Kathmandu,Rasuwa},Gandaki/{Kaski,Gorkha}}  
bibhuti_sigdel@Bibhuti:~$ |
```

Figure 12:mkdir -p Nepal/ {Bagmati/ {Kathmandu, Rasuwa}, Gandaki/ {Kaski,Gorkha}

Step 13: Type “tree” command

```
bibhuti_sigdel@Bibhuti: ~  
It has several line  
Three lines, in fact  
bibhuti_sigdel@Bibhuti:~$ cat test1 test2 > test3  
bibhuti_sigdel@Bibhuti:~$ mkdir -p Nepal/{Bagmati/{Kathmandu,Rasuwa},Gandaki/{Kaski,Gorkha}  
bibhuti_sigdel@Bibhuti:~$ tree  
bash: tree: command not found  
bibhuti_sigdel@Bibhuti:~$ sudo apt install tree  
[sudo] password for bibhuti_sigdel:  
Reading package lists... Done  
Building dependency tree... Done  
The following NEW packages will be installed:  
  tree  
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.  
Need to get 52.5 kB of archives.  
After this operation, 116 kB of additional disk space will be used.  
Get:1 http://deb.debian.org/debian bookworm/main amd64 tree amd64 2.1.0-1 [52.5 kB]  
Fetched 52.5 kB in 0s (305 kB/s)  
Selecting previously unselected package tree.  
(Reading database ... 9538 files and directories currently installed.)  
Preparing to unpack .../tree_2.1.0-1_amd64.deb ...  
Unpacking tree (2.1.0-1) ...  
Setting up tree (2.1.0-1) ...  
bibhuti_sigdel@Bibhuti:~$ tree  
.  
├── alscript  
├── class  
├── Nepal  
│   ├── {Bagmati  
│   │   ├── Kathmandu,Gandaki  
│   │   │   ├── Gorkha  
│   │   │   └── Kaski  
│   │   └── Rasuwa,Gandaki  
│   │       ├── Gorkha  
│   │       └── Kaski  
├── os  
├── test1  
├── test2  
└── test3  
  
11 directories, 4 files  
bibhuti_sigdel@Bibhuti:~$ |
```

Figure 13: tree command