Bangladesh University of Business and Technology (BUBT)

LAB – 02

Course Code: CSE 310

Course Name: Operating Systems Lab

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Tasks:

1. Troubleshooting:

● Use the who command to identify the currently logged-in users on the system.

```
sohel@sohel-VirtualBox:~$ who
sohel     seat0          2024-07-16 23:10 (login screen)
sohel     tty2           2024-07-16 23:10 (tty2)
sohel@sohel-VirtualBox:~$
```

2. User Management:

● Create a new user named developer1 using the useradd command.

```
sohel@sohel-VirtualBox:~$ sudo useradd devloper1
[sudo] password for sohel:
sohel@sohel-VirtualBox:~$
```

● Set a password for the newly created user using the passwd command.

```
sohel@sohel-VirtualBox:~$ sudo passwd devloper1
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: password updated successfully
```

● Create a new group named development using the groupadd command.

```
sohel@sohel-VirtualBox:~$ sudo groupadd devlopment
```

● Add the user developer1 to the development group using the usermod command.

```
sohel@sohel-VirtualBox:~$ sudo usermod -aG devlopment devloper1
```

● Check and display the group memberships of the user developer1 using the groups command.

```
sohel@sohel-VirtualBox:~$ groups devloper1
devloper1 : devloper1 devlopment
```

3. File Permission Adjustment:

- Create a directory named project_files in the home directory of developer1 using the mkdir command.

```
sohel@sohel-VirtualBox:~/devloper1$ sudo mkdir project_files
sohel@sohel-VirtualBox:~$ sudo mkdir devloper1
sohel@sohel-VirtualBox:~$ ls
Desktop  devloper1  Documents  Downloads  Music  Pictures  Public  snap  Templates  Videos
sohel@sohel-VirtualBox:~$ cd devloper1
```

- Change the ownership of the project_files directory to developer1 and the group to development using the chown and chgrp commands.

```
sohel@sohel-VirtualBox:~/devloper1$ sudo chown devloper1:devlopment /home/devlopment/project_files
```

- Ensure that only the owner (developer1) has write permissions on the project_files directory.

```
sohel@sohel-VirtualBox:~/devloper1$ sudo chmod u+wrx,g-rwx,0-wrx project_files
```

4. Conclusion:

- Summarize your troubleshooting findings and the actions taken to resolve any issues.

- Confirm that the new user developer1 has been successfully created, added to the development group, and that file permissions are set correctly.

```
sohel@sohel-VirtualBox:~/devloper1$ ls -ld /home/devloper1/project_files
```