Submitted to:-

Engr. Muhammad Shoaib

Submitted by:-

Hafsa Khalid

Reg no:-

2023-BSE-021

Section:-

5 A

Cloud Computing

LAB O6

Task 1 – Switch to root with su - and back to a normal user

```
hafsa021@hafsa021:~$ sudo passwd root
[sudo] password for hafsa021:
New password:
Retype new password:
passwd: password updated successfully
```

```
hafsa021@hafsa021:~$ su -
Password:
root@hafsa021:~# whoami
root
root@hafsa021:~# id
uid=0(root) gid=0(root) groups=0(root)
root@hafsa021:~#
```

```
root@hafsa021:~# exit
logout
hafsa021@hafsa021:~$ whoami
hafsa021
hafsa021@hafsa021:~$
```

Task 2 – Create user tom and verify in passwd/group/shadow

```
hafsa021@hafsa021:~$ sudo adduser tom
info: Adding user `tom' ...
info: Selecting UID/GID from range 1000 to 59999 ...
info: Adding new group `tom' (1001) ...
info: Adding new user `tom' (1001) with group `tom (1001)' ...
info: Creating home directory `/home/tom' ...
info: Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for tom
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
info: Adding new user `tom' to supplemental / extra groups `users' ...
info: Adding user `tom' to group `users' ...
hafsa021@hafsa021:~$
```

```
hafsa021@hafsa021:~$ cat /etc/passwd
root:x:0:0:root:/root:/bin/bashemd Time Synchronization:/:/usr/sbin/nologin
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologinib/dhcpcd:/bin/false
bin:x:2:2:bin:/bin:/usr/sbin/nologinusr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologinsolver:/:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/syncinate:/bin/false
games:x:5:60:games:/usr/games:/usr/sbin/nologinnologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologinn
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologinn
mail:x:8:8:mail:/var/mail:/usr/sbin/nologinologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin/bin/false
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologinologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologinemon:/var/lib/fwupd:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologinr/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/nologinin/nologin
_apt:x:42:65534::/nonexistent:/usr/sbin/nologinsbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologinbin/false
systemd-network:x:998:998:systemd Network Management:/:/usr/sbin/nologin
systemd-timesync:x:997:997:systemd Time Synchronization:/:/usr/sbin/nologin
dhcpcd:x:100:65534:DHCP Client Daemon,,,:/usr/lib/dhcpcd:/bin/false
messagebus:x:101:102::/nonexistent:/usr/sbin/nologin/var/lib/colord:/usr/sbin/nologin
systemd-resolve:x:992:992:systemd Resolver:/:/usr/sbin/nologinonexistent:/usr/sbin/nologin
pollinate:x:102:1::/var/cache/pollinate:/bin/falsesr/sbin/nologin
polkitd:x:991:991:User for polkitd:/:/usr/sbin/nologin
syslog:x:103:104::/nonexistent:/usr/sbin/nologin
uuidd:x:104:105::/run/uuidd:/usr/sbin/nologin
tcpdump:x:105:107::/nonexistent:/usr/sbin/nologin
tss:x:106:108:TPM software stack,,,:/var/lib/tpm:/bin/false
landscape:x:107:109::/var/lib/landscape:/usr/sbin/nologin
fwupd-refresh:x:989:989:Firmware update daemon:/var/lib/fwupd:/usr/sbin/nologin
usbmux:x:108:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologin
sshd:x:109:65534::/run/sshd:/usr/sbin/nologin
hafsa021:x:1000:1000:hafsa:/home/hafsa021:/bin/bash
rtkit:x:110:110:RealtimeKit,,,:/proc:/usr/sbin/nologin
dnsmasq:x:999:65534:dnsmasq:/var/lib/misc:/usr/sbin/nologin
lightdm:x:111:112:Light Display Manager:/var/lib/lightdm:/bin/false
whoopsie:x:112:114::/nonexistent:/bin/false
avahi:x:113:118:Avahi mDNS daemon,,,:/run/avahi-daemon:/usr/sbin/nologin
saned:x:114:119::/var/lib/saned:/usr/sbin/nologin
colord:x:115:120:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologin
cups-pk-helper:x:116:121:user for cups-pk-helper service,,,:/nonexistent:/usr/sbin/nologin
pulse:x:117:122:PulseAudio daemon,,,:/run/pulse:/usr/sbin/nologin
cups-browsed:x:118:121::/nonexistent:/usr/sbin/nologin
xrdp:x:119:124::/run/xrdp:/usr/sbin/nologin
tom:x:1001:1001:,,,:/home/tom:/bin/bash
hafsa021@hafsa021:~$
```

```
hafsa021@hafsa021:~$ cat /etc/group
root:x:0:
daemon:x:1:
bin:x:2:
sys:x:3:
adm:x:4:syslog,hafsa021
tty:x:5:
disk:x:6:
lp:x:7:
mail:x:8:
news:x:9:
uucp:x:10:
man:x:12:
proxy:x:13:
kmem:x:15:
dialout:x:20:
fax:x:21:
voice:x:22:
cdrom:x:24:hafsa021
floppy:x:25:
tape:x:26:
sudo:x:27:hafsa021
audio:x:29:pulse
dip:x:30:hafsa021
www-data:x:33:
backup:x:34:
operator:x:37:
list:x:38:
irc:x:39:
src:x:40:
shadow:x:42:
utmp:x:43:
video:x:44:
sasl:x:45:
plugdev:x:46:hafsa021
staff:x:50:
games:x:60:
users:x:100:tom
nogroup:x:65534:
systemd-journal:x:999:
systemd-network:x:998:
systemd-timesync:x:997:
input:x:996:
sgx:x:995:
kvm:x:994:
render:x:993:
lxd:x:101:hafsa021
messagebus:x:102:
systemd-resolve:x:992:
_ssh:x:103:
polkitd:x:991:
crontab:x:990:
```

```
hafsa021@hafsa021:~$ sudo cat /etc/shadow
messagebus:!:20305::::::
systemd-resolve:!*:20305::::::
pollinate:!:20305::::::
polkitd:!*:20305::::::
syslog:!:20305::::::
uuidd:!:20305::::::
tcpdump:!:20305::::::
tss:!:20305::::::
landscape:!:20305::::::
fwupd-refresh:!*:20305::::::
usbmux:!:20357::::::
sshd:!:20357::::::
hafsa021:$6$56RqAX4wX2.E6VCJ$XCsVkbb93npis1U7cmZEcXE0Jm4hLQmJRQYsxeQClQ1Jn8QF1nhi7lB8mDy3MA5yRiPY8tiVh/.0h7VWQIqkf1:2035
7:0:99999:7:::
rtkit:!:20385::::::
dnsmasq:!:20385::::::
lightdm:!:20385::::::
whoopsie:!:20385::::::
avahi:!:20385::::::
saned:!:20385::::::
colord:!:20385::::::
cups-pk-helper:!:20385::::::
pulse:!:20385::::::
cups-browsed:!:20385::::::
xrdp:!:20385::::::
tom:$y$j9T$5OmHHKJvcHuxR4OlaH.oZ/$Lx2P8OCYOAJWLAwZlfrWSdJidZEIXJGFf6fuJe9Ley7:20399:0:99999:7:::
hafsa021@hafsa021:~$
```

Task 3 – Create groups; change tom's primary and secondary groups

```
hafsa021@hafsa021:~$ sudo groupadd developer
hafsa021@hafsa021:~$ sudo groupadd devops
hafsa021@hafsa021:~$ sudo groupadd designer
hafsa021@hafsa021:~$ cat /etc/group
```

```
hafsa021@hafsa021:~$ cat /etc/group
root:x:0:20385::::::
daemon:x:1:per:!:20385::::::
bin:x:2:20385::::::
sys:x:3:wsed:!:20385::::::
adm:x:4:syslog,hafsa021
tty:x:5:9T$5OmHHKJvcHuxR4OlaH.oZ/$Lx2P8OCYOAJWLAwZlfrWSdJidZEIXJGFf6fuJe9Ley7:20399:0:99999:7:::
disk:x:6:hafsa021:~$
lp:x:7:
mail:x:8:
news:x:9:
uucp:x:10:
man:x:12:
proxy:x:13:
kmem:x:15:
dialout:x:20:
fax:x:21:
voice:x:22:
cdrom:x:24:hafsa021
floppy:x:25:
tape:x:26:
sudo:x:27:hafsa021
audio:x:29:pulse
dip:x:30:hafsa021
```

```
hafsa021@hafsa021:~$ sudo usermod -g designer tom
hafsa021@hafsa021:~$ id tom
uid=1001(tom) gid=1004(designer) groups=1004(designer),100(users)
hafsa021@hafsa021:~$
```

```
hafsa021@hafsa021:~$ sudo usermod -aG developer,devops tom
hafsa021@hafsa021:~$ id tom
uid=1001(tom) gid=1004(designer) groups=1004(designer),100(users),1002(developer),1003(devops)
hafsa021@hafsa021:~$ groups tom
tom : designer users developer devops
hafsa021@hafsa021:~$
```

```
hafsa021@hafsa021:~$ sudo usermod -G tom tom
hafsa021@hafsa021:~$ id tom
uid=1001(tom) gid=1004(designer) groups=1004(designer),1001(tom)
hafsa021@hafsa021:~$ groups tom
tom : designer tom
hafsa021@hafsa021:~$
```

Task 4 – Create/delete users (Jerry, Scooby) and groups (jolly, anime)

```
hafsa021@hafsa021:~$ sudo adduser jerry
info: Adding user `jerry' ...
info: Selecting UID/GID from range 1000 to 59999 ...
info: Adding new group `jerry' (1005) ...
info: Adding new user `jerry' (1005) with group `jerry (1005)' ...
info: Creating home directory `/home/jerry' ...
info: Copying files from `/etc/skel' ...
New password:
Retype new password:
No password has been supplied.
New password:
Retype new password:
No password has been supplied.
New password:
Retype new password:
No password has been supplied.
passwd: Authentication token manipulation error
passwd: password unchanged
Try again? [y/N]
Changing the user information for jerry
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]
info: Adding new user `jerry' to supplemental / extra groups `users' ...
info: Adding user `jerry' to group `users' ...
hafsa021@hafsa021:~$
```

```
hafsa021@hafsa021:~$ sudo adduser scooby
info: Adding user `scooby' ...
info: Selecting UID/GID from range 1000 to 59999 ...
info: Adding new group `scooby' (1006) ...
info: Adding new user `scooby' (1006) with group `scooby (1006)' ...
info: Creating home directory `/home/scooby' ...
info: Copying files from `/etc/skel' ...
New password:
Retype new password:
No password has been supplied.
New password:
Retype new password:
No password has been supplied.
New password:
Retype new password:
No password has been supplied.
passwd: Authentication token manipulation error
passwd: password unchanged
Try again? [y/N]
Changing the user information for scooby
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]
info: Adding new user `scooby' to supplemental / extra groups `users' ...
info: Adding user `scooby' to group `users' ...
hafsa021@hafsa021:~$
```

```
hafsa021@hafsa021:~$ su -scooby
Password:

su: Authentication failure
hafsa021@hafsa021:~$
```

```
hafsa021@hafsa021:~$ su -scooby
Password:
su: failed to execute cooby: No such file or directory
hafsa021@hafsa021:~$
```

```
hafsa021@hafsa021:~$ 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
systemd-timesync:x:997:997:systemd Time Synchronization:/:/usr/sbin/nologin
dhcpcd:x:100:65534:DHCP Client Daemon,,,:/usr/lib/dhcpcd:/bin/false
messagebus:x:101:102::/nonexistent:/usr/sbin/nologin
systemd-resolve:x:992:992:systemd Resolver:/:/usr/sbin/nologin
pollinate:x:102:1::/var/cache/pollinate:/bin/false
polkitd:x:991:991:User for polkitd:/:/usr/sbin/nologin
```

```
hafsa021@hafsa021:~$ ls -ld /home/scooby
drwxr-x--- 2 scooby scooby 4096 Nov  7 16:46 /home/scooby
hafsa021@hafsa021:~$
```

```
hafsa021@hafsa021:~$ sudo mkdir -p /home/scooby
[sudo] password for hafsa021:
hafsa021@hafsa021:~$ sudo chown scooby:scooby /home/scooby
hafsa021@hafsa021:~$ sudo chmod 750 /home scooby
chmod: cannot access 'scooby': No such file or directory
hafsa021@hafsa021:~$ sudo chmod 750 /home/scooby
hafsa021@hafsa021:~$
```

```
hafsa021@hafsa021:~$ sudo ls -ld /home/scooby
[sudo] password for hafsa021:
drwxr-x--- 2 scooby scooby 4096 Nov  7 16:46 /home/scooby
hafsa021@hafsa021:~$
```

```
hafsa021@hafsa021:~$ su - scooby
Password:
su: warning: cannot change directory to /home/scooby: Permission denied
-bash: /home/scooby/.bash_profile: Permission denied
scooby@hafsa021:/home/hafsa021$ pwd
/home/hafsa021
scooby@hafsa021:/home/hafsa021$
```

```
scooby@hafsa021:/home/hafsa021$ exit
logout
-bash: /home/scooby/.bash_logout: Permission denied
hafsa021@hafsa021:~$ car /etc/passwd
Command 'car' not found, but can be installed with:
sudo apt install ucommon-utils
hafsa021@hafsa021:~$ cat_/etc/passwd
```

```
hafsa021@hafsa021:~$ 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
systemd-timesync:x:997:997:systemd Time Synchronization:/:/usr/sbin/nologin
dhcpcd:x:100:65534:DHCP Client Daemon,,,:/usr/lib/dhcpcd:/bin/false
messagebus:x:101:102::/nonexistent:/usr/sbin/nologin
systemd-resolve:x:992:992:systemd Resolver:/:/usr/sbin/nologin
pollinate:x:102:1::/var/cache/pollinate:/bin/false
polkitd:x:991:991:User for polkitd:/:/usr/sbin/nologin
```

```
hafsa021@hafsa021:~$ sudo usermod -s /bin/bash scooby
usermod: no changes
hafsa021@hafsa021:~$ su - scooby
Password:
su: warning: cannot change directory to /home/scooby: Permission denied
-bash: /home/scooby/.bash_profile: Permission denied
scooby@hafsa021:/home/hafsa021$
```

```
scooby@hafsa021:/home/hafsa021$ sudo groupadd jolly
[sudo] password for scooby:
scooby is not in the sudoers file.
scooby@hafsa021:/home/hafsa021$ sudo groupadd anime
[sudo] password for scooby:
scooby is not in the sudoers file.
scooby@hafsa021:/home/hafsa021$ cat /etc/group
root:x:0:
daemon:x:1:
bin:x:2:
sys:x:3:
adm:x:4:syslog,hafsa021
tty:x:5:
disk:x:6:
lp:x:7:
mail:x:8:
news:x:9:
uucp:x:10:
man:x:12:
proxy:x:13:
kmem:x:15:
dialout:x:20:
```

```
scooby@hafsa021:/home/hafsa021$ sudo delgroup jolly
[sudo] password for scooby:
```

```
scooby@hafsa021:/home/hafsa021$ sudo groupdel anime
[sudo] password for scooby:
```

```
scooby@hafsa021:/home/hafsa021$ cat /etc/group
root:x:0:
daemon:x:1:
bin:x:2:
sys:x:3:
adm:x:4:syslog,hafsa021
tty:x:5:
disk:x:6:
lp:x:7:
mail:x:8:
news:x:9:
uucp:x:10:
man:x:12:
proxy:x:13:
kmem:x:15:
dialout:x:20:
fax:x:21:
voice:x:22:
cdrom:x:24:hafsa021
floppy:x:25:
```

```
scooby@hafsa021:/home/hafsa021$ sudo deluser --remove-home jerry
[sudo] password for scooby:
```

```
scooby@hafsa021:/home/hafsa021$ sudo userdel -r scooby
[sudo] password for scooby:
scooby is not in the sudoers file.
```

```
scooby@hafsa021:/home/hafsa021$ 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
systemd-timesync:x:997:997:systemd Time Synchronization:/:/usr/sbin/nologin
dhcpcd:x:100:65534:DHCP Client Daemon,,,:/usr/lib/dhcpcd:/bin/false
messagebus:x:101:102::/nonexistent:/usr/sbin/nologin
systemd-resolve:x:992:992:systemd Resolver:/:/usr/sbin/nologin
pollinate:x:102:1::/var/cache/pollinate:/bin/false
polkitd:x:991:991:User for polkitd:/:/usr/sbin/nologin
```

Task 5 – Create user Student; create files; set owner/group; identify file types

```
scooby@hafsa021:/home/hafsa021$ sudo adduser student
[sudo] password for scooby:
scooby is not in the sudoers file.
scooby@hafsa021:/home/hafsa021$
```

```
scooby@hafsa021:~$ touch file1
scooby@hafsa021:~$ mkdir -p dir1
scooby@hafsa021:~$ touch dir1/file2
scooby@hafsa021:~$ ls -l
total 4
drwxrwxr-x 2 scooby scooby 4096 Nov  8 03:59 dir1
-rw-rw-r-- 1 scooby scooby    0 Nov  8 03:59 file1
scooby@hafsa021:~$
```

```
scooby@hafsa021:~$ sudo chown tom file1
[sudo] password for scooby:
scooby is not in the sudoers file.
scooby@hafsa021:~$ ls -l file1
-rw-rw-r-- 1 scooby scooby 0 Nov  8 03:59 file1
scooby@hafsa021:~$ sudo chgrp devops file1
[sudo] password for scooby:
```

```
scooby@hafsa021:~$ ls -l file1
-rw-rw-r-- 1 scooby devops 0 Nov  8 03:59 file1
scooby@hafsa021:~$
```

```
scooby@hafsa021:~$ ls -l
total 4
drwxrwxr-x 2 scooby scooby 4096 Nov  8 03:59 dir1
-rw-rw-r-- 1 scooby devops    0 Nov  8 03:59 file1
scooby@hafsa021:~$
```

```
scooby@hafsa021:~$ ls -l dir1
total 0
-rw-rw-r-- 1 scooby scooby 0 Nov  8 03:59 file2
scooby@hafsa021:~$
```

```
scooby@hafsa021:~$ ls -l /dev/null
crw-rw-rw- 1 root root 1, 3 Oct 24 04:20 /dev/null
scooby@hafsa021:~$
```

```
scooby@hafsa021:~$ file file1 dir1 /dev/null
file1:     empty
dir1:      directory
/dev/null: character special (1/3)
scooby@hafsa021:~$
```

```
scooby@hafsa021:~$ exit
logout
hafsa021@hafsa021:/$
```

Task 6 – Change permissions using symbolic mode

```
hafsa021@hafsa021:/$ su - student
Password:
student@hafsa021:~$ cd ~
```

```
student@hafsa021:~$ ls -l file1
-rw-rw-r-- 1 student student 0 Nov  8 04:11 file1
student@hafsa021:~$
```

```
student@hafsa021:~$ chmod -rwx file1
student@hafsa021:~$ ls -l file1
---------- 1 student student 0 Nov  8 04:11 file1
student@hafsa021:~$
```

```
student@hafsa021:~$ chmod +r file1
student@hafsa021:~$ ls -l file1
-r--r--r-- 1 student student 0 Nov  8 04:11 file1
student@hafsa021:~$
```

```
student@hafsa021:~$ ls -l file1
-r-xr--r-- 1 student student 0 Nov  8 04:11 file1
student@hafsa021:~$
```

```
student@hafsa021:~$ chmod ug+w file1
student@hafsa021:~$ ls -l file1
-rwxrw-r-- 1 student student 0 Nov  8 04:11 file1
student@hafsa021:~$
```

```
student@hafsa021:~$ chmod ugo-rwx file1
student@hafsa021:~$ ls -l file1
---------- 1 student student 0 Nov  8 04:11 file1
student@hafsa021:~$
```

Task 7 – Change permissions using "set" symbolic form (u= g= o=)

```
student@hafsa021:~$ su - student
Password:
student@hafsa021:~$ cd ~
student@hafsa021:~$ ls =l file1
ls: cannot access '=l': No such file or directory
 file1
student@hafsa021:~$ ls -l file1
---------- 1 student student 0 Nov  8 04:11 file1
student@hafsa021:~$
```

```
student@hafsa021:~$ chmod u=rwx,g=rwx,o=rwx file1
student@hafsa021:~$ ls =l file1
ls: cannot access '=l': No such file or directory
 file1
student@hafsa021:~$ ls -l file1
-rwxrwxrwx 1 student student 0 Nov  8 04:11 file1
student@hafsa021:~$
```

```
student@hafsa021:~$ chmod g=rw,o=rw file1
student@hafsa021:~$ ls -l file1
-rwxrw-rw- 1 student student 0 Nov  8 04:11 file1
student@hafsa021:~$
```

```
student@hafsa021:~$ chmod u=,g=,o= file1
-l file1
student@hafsa021:~$ ls -l file1
---------- 1 student student 0 Nov  8 04:11 file1
student@hafsa021:~$
```

Task 8 – Change permissions using numeric (octal) mode

```
student@hafsa021:~$ su - student
Password:
student@hafsa021:~$ ls -l file1
---------- 1 student student 0 Nov  8 04:11 file1
student@hafsa021:~$
```

```
student@hafsa021:~$ chmod 777 file1
student@hafsa021:~$ ls -l file1
-rwxrwxrwx 1 student student 0 Nov  8 04:11 file1
student@hafsa021:~$
```

```
student@hafsa021:~$ chmod 700 file1
student@hafsa021:~$ ls -l file1
-rwx------ 1 student student 0 Nov  8 04:11 file1
student@hafsa021:~$
```

```
student@hafsa021:~$ chmod 744 file1
student@hafsa021:~$ ls -l file1
-rwxr--r-- 1 student student 0 Nov  8 04:11 file1
student@hafsa021:~$
```

```
student@hafsa021:~$ chmod 640 file1
student@hafsa021:~$ ls -l file1
-rw-r----- 1 student student 0 Nov  8 04:11 file1
student@hafsa021:~$
```

```
student@hafsa021:~$ chmod 664 file1
student@hafsa021:~$ ls -l file1
-rw-rw-r-- 1 student student 0 Nov  8 04:11 file1
student@hafsa021:~$
```

```
student@hafsa021:~$ chmod 775 file1
student@hafsa021:~$ ls -l file1
-rwxrwxr-x 1 student student 0 Nov  8 04:11 file1
student@hafsa021:~$
```

```
student@hafsa021:~$ chmod 750 file1
student@hafsa021:~$ ls -l file1
-rwxr-x--- 1 student student 0 Nov  8 04:11 file1
student@hafsa021:~$
```

Task 9 – Practice pipes, pagers, grep, and redirects with /var/log/syslog

```
student@hafsa021:~$ sudo cat /var/log/syslog | less
```

```
student@hafsa021: ~                                                      —  □  ✕

(END)
```
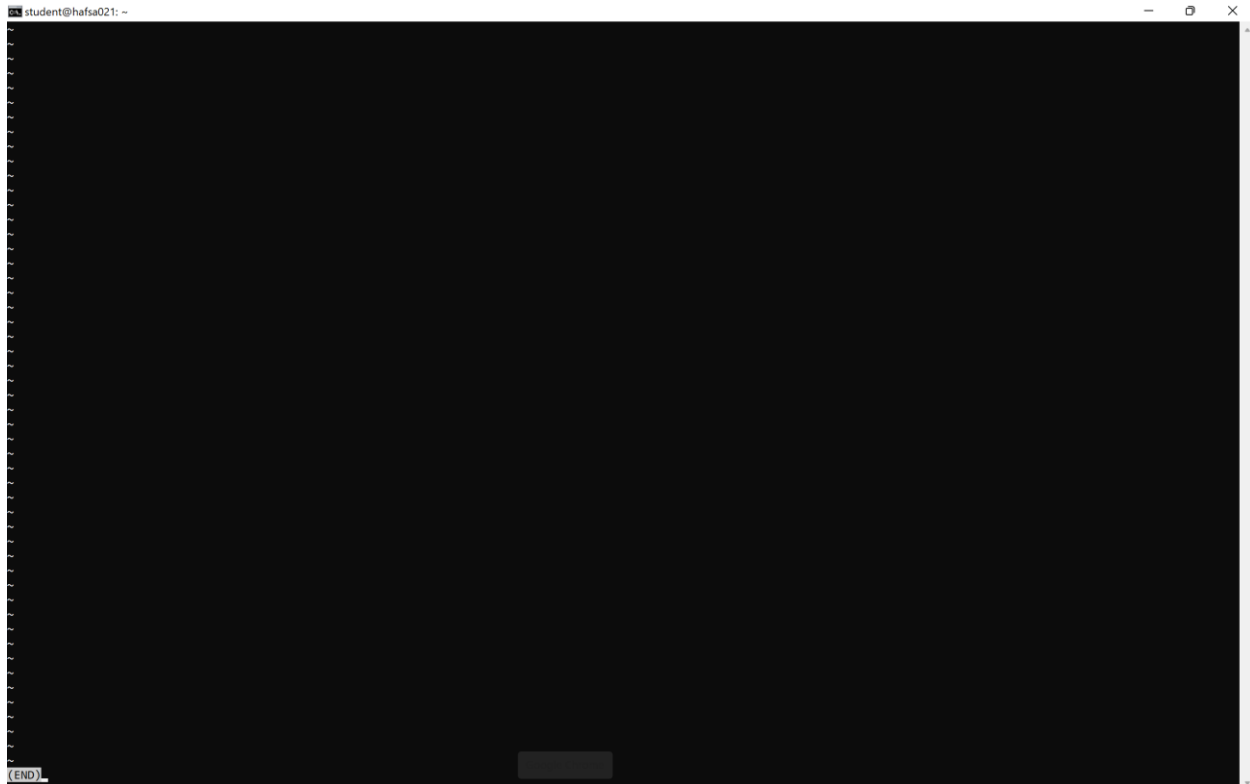
```
student@hafsa021:~$ sudo cat /var/log/syslog | more
[sudo] password for student:
student is not in the sudoers file.
student@hafsa021:~$
```

```
student@hafsa021:~$ sudo grep -E 'fail|error' /var/log/syslog | head
[sudo] password for student:
student is not in the sudoers file.
student@hafsa021:~$
```

```
student@hafsa021:~$ sudo grep -i systemd /var/log/syslog > ~/syslog_systemd.txt
[sudo] password for student:
student is not in the sudoers file.
student@hafsa021:~$
```

```
student@hafsa021:~$ sudo grep -i network /var/log/syslog >> ~/syslog_systemd.txt
systemd.txt[sudo] password for student:
Sorry, try again.
[sudo] password for student:
student is not in the sudoers file.
student@hafsa021:~$
```

```
student@hafsa021:~$ sudo journalctl | less
rnalctl -u systemd | grep -i error > ~/journal_errors.txt
```

```
student@hafsa021: ~
[sudo] password for student:
Sorry, try again.
[sudo] password for student:
student is not in the sudoers file.
(END)
```

Task 10 – Script setup.sh – variables, command substitution, file/dir checks, permissions (use vim)

```
student@hafsa021:~$ vim setup.sh
```

```
student@hafsa021: ~
#!/bin/bash
```

```
student@hafsa021:~$ chmod +x setup.sh
student@hafsa021:~$ ./setup.sh
student@hafsa021:~$
```

```
student@hafsa021: ~
#!/bin/bash
## Define and show var1
  var1="Hello from Lab 6"
  echo "var1: $var1"
#
```

```
student@hafsa021:~$ student@hafsa021:~$ ./setup.sh
var1: Hello from Lab 6
student@hafsa021:~$
```

```
student@hafsa021: ~
#!/bin/bash
## Define and show var1
  var1="Hello from Lab 6"
  echo "var1: $var1"
  # Save ls -l to variable and display
  allFiles="$(ls -l)"
   echo "allFiles (ls -l):"
   echo "$allFiles"
  #
~
```

```
student@hafsa021:~$ student@hafsa021:~$ ./setup.sh
var1: Hello from Lab 6
allFiles (ls -l):
total 4
-rwxr-x--- 1 student student    0 Nov  8 04:11 file1
-rwxrwxr-x 1 student student  197 Nov  8 05:49 setup.sh
-rw-rw-r-- 1 student student    0 Nov  8 04:42 syslog_systemd.txt
student@hafsa021:~$
```

student@hafsa021: ~

```bash
#!/bin/bash
## Define and show var1
 var1="Hello from Lab 6"
 echo "var1: $var1"
 # Save ls -l to variable and display
 allFiles="$(ls -l)"
  echo "allFiles (ls -l):"
  echo "$allFiles"
 # Directory check
  if [ -d "dir1" ]; then
    echo "Directory dir1 exists."
    else
      echo "Directory dir1 does not exist. Creating..."
        mkdir -p "dir1"
          echo "Directory dir1 created."
          fi
```

```
student@hafsa021:~$ student@hafsa021:~$ ./setup.sh
var1: Hello from Lab 6
allFiles (ls -l):
total 4
-rwxr-x--- 1 student student    0 Nov  8 04:11 file1
-rwxrwxr-x 1 student student  431 Nov  8 05:51 setup.sh
-rw-rw-r-- 1 student student    0 Nov  8 04:42 syslog_systemd.txt
Directory dir1 does not exist. Creating...
Directory dir1 created.
student@hafsa021:~$
```

```
  echo "var1: $var1"
  # Save ls -l to variable and display
  allFiles="$(ls -l)"
   echo "allFiles (ls -l):"
   echo "$allFiles"
  # Directory check
   if [ -d "dir1" ]; then
      echo "Directory dir1 exists."
      else
        echo "Directory dir1 does not exist. Creating..."
         mkdir -p "dir1"
          echo "Directory dir1 created."
          fi
        eck
       if [ -f "dir1/file2" ]; then
          echo "file2 already exists."
 else
  echo "file2 does not exist. Creating..."
  touch "dir1/file2"
  chmod a-rwx "dir1/file2"
  echo "file2 created."
     fi

-- INSERT --
```

```
student@hafsa021:~$ ./setup.sh
var1: Hello from Lab 6
allFiles (ls -l):
total 8
drwxrwxr-x 2 student student 4096 Nov  8 05:51 dir1
-rwxr-x--- 1 student student    0 Nov  8 04:11 file1
-rwxrwxr-x 1 student student  638 Nov  8 05:52 setup.sh
-rw-rw-r-- 1 student student    0 Nov  8 04:42 syslog_systemd.txt
Directory dir1 exists.
./setup.sh: line 17: eck: command not found
file2 does not exist. Creating...
file2 created.
student@hafsa021:~$
```

```
 echo "file2 created."
     fi
     # Permission checks for dir1/file2 (user permissions)
     # f="dir1/file2"
     # if [ ! -r "$f" ]; then
     #   echo "Read permission missing; granting to user..."
    # Permission checks for dir1/file2 (user permissions)
     f="dir1/file2"
      if [ ! -r "$f" ]; then
         echo "Read permission missing; granting to user..."
          chmod u+r "$f"
          fi

         if [ ! -w "$f" ]; then
            echo "Write permission missing; granting to user..."
             chmod u+w "$f"
             fi

          if [ ! -x "$f" ]; then
             echo "Execute permission missing; granting to user..."
              chmod u+x "$f"
              fi

-- INSERT --
```

```
student@hafsa021:~$ ./setup.sh
var1: Hello from Lab 6
allFiles (ls -l):
total 8
drwxrwxr-x 2 student student 4096 Nov  8 05:52 dir1
-rwxr-x--- 1 student student    0 Nov  8 04:11 file1
-rwxrwxr-x 1 student student 1959 Nov  8 05:55 setup.sh
-rw-rw-r-- 1 student student    0 Nov  8 04:42 syslog_systemd.txt
Directory dir1 exists.
./setup.sh: line 17: eck: command not found
file2 already exists.
Read permission missing; granting to user...
Write permission missing; granting to user...
Execute permission missing; granting to user...
Final permissions for dir1/file2:
-rwx------ 1 student student 0 Nov  8 05:52 dir1/file2
```

Task 11 – Script setup.sh – argument comparisons (eq, ne, gt, lt, ge, le) and string checks

```
#!/bin/bash
num=$1
str=$2

#
```

```
student@hafsa021:~$ chmod +x setup.sh
student@hafsa021:~$ ./setup.sh 10 Student
student@hafsa021:~$
```

```bash
#!/bin/bash
num=$1
str=$2
if [ "$num" -eq 10 ]; then
        echo "$num is equal to 10 (-eq)."
   else
            echo "$num is NOT equal to 10 (-eq)."
fi
```

```
student@hafsa021:~$ ./setup.sh 10 Student
10 is equal to 10 (-eq).
student@hafsa021:~$ ./setup.sh 7 Student
7 is NOT equal to 10 (-eq).
student@hafsa021:~$
```

```bash
#!/bin/bash
num=$1
str=$2
if [ "$num" -eq 10 ]; then
        echo "$num is equal to 10 (-eq)."
   else
            echo "$num is NOT equal to 10 (-eq)."
fi
if [ "$num" -ne 10 ]; then
        echo "$num is not equal to 10 (-ne)."
   else
            echo "$num is equal to 10 (-ne false)."
fi
```

```
student@hafsa021:~$ ./setup.sh 7 Student
7 is NOT equal to 10 (-eq).
7 is not equal to 10 (-ne).
student@hafsa021:~$ ./setup.sh 10 Student
10 is equal to 10 (-eq).
10 is equal to 10 (-ne false).
student@hafsa021:~$
```

```
student@hafsa021: ~

num=$1
str=$2
if [ "$num" -eq 10 ]; then
        echo "$num is equal to 10 (-eq)."
   else
            echo "$num is NOT equal to 10 (-eq)."
fi
if [ "$num" -ne 10 ]; then
        echo "$num is not equal to 10 (-ne)."
   else
            echo "$num is equal to 10 (-ne false)."
fi
if [ "$num" -gt 10 ]; then
        echo "$num is greater than 10 (-gt)."
   else
            echo "$num is NOT greater than 10 (-gt)."
fi
```

```
student@hafsa021:~$ ./setup.sh 12 Student
12 is NOT equal to 10 (-eq).
12 is not equal to 10 (-ne).
12 is greater than 10 (-gt).
student@hafsa021:~$ ./setup.sh 9 Student
9 is NOT equal to 10 (-eq).
9 is not equal to 10 (-ne).
9 is NOT greater than 10 (-gt).
student@hafsa021:~$
```

```
num=$1
str=$2
if [ "$num" -eq 10 ]; then
        echo "$num is equal to 10 (-eq)."
    else
            echo "$num is NOT equal to 10 (-eq)."
fi
if [ "$num" -ne 10 ]; then
        echo "$num is not equal to 10 (-ne)."
    else
            echo "$num is equal to 10 (-ne false)."
fi
if [ "$num" -gt 10 ]; then
        echo "$num is greater than 10 (-gt)."
    else
            echo "$num is NOT greater than 10 (-gt)."
fi
f [ "$num" -lt 10 ]; then
    echo "$num is less than 10 (-lt)."
else
        echo "$num is NOT less than 10 (-lt)."
        fi

-- INSERT --
```

```
student@hafsa021:~$ ./setup.sh 5 Student
5 is NOT equal to 10 (-eq).
5 is not equal to 10 (-ne).
5 is NOT greater than 10 (-gt).
./setup.sh: line 19: syntax error near unexpected token `then'
./setup.sh: line 19: `f [ "$num" -lt 10 ]; then'
student@hafsa021:~$ ./setup.sh 11 Student
11 is NOT equal to 10 (-eq).
11 is not equal to 10 (-ne).
11 is greater than 10 (-gt).
./setup.sh: line 19: syntax error near unexpected token `then'
./setup.sh: line 19: `f [ "$num" -lt 10 ]; then'
student@hafsa021:~$
```

```
                echo "$num is NOT equal to 10 (-eq)."
fi
if [ "$num" -ne 10 ]; then
            echo "$num is not equal to 10 (-ne)."
    else
                echo "$num is equal to 10 (-ne false)."
fi
if [ "$num" -gt 10 ]; then
            echo "$num is greater than 10 (-gt)."
    else
                echo "$num is NOT greater than 10 (-gt)."
fi
f [ "$num" -lt 10 ]; then
    echo "$num is less than 10 (-lt)."
else
            echo "$num is NOT less than 10 (-lt)."
            fi
if [ "$num" -ge 10 ]; then
            echo "$num is greater than or equal to 10 (-ge)."
    else
                echo "$num is NOT greater than or equal to 10 (-ge)."
fi

-- INSERT --
```

```
student@hafsa021:~$ ./setup.sh 10 Student
10 is equal to 10 (-eq).
10 is equal to 10 (-ne false).
10 is NOT greater than 10 (-gt).
./setup.sh: line 19: syntax error near unexpected token `then'
./setup.sh: line 19: `f [ "$num" -lt 10 ]; then'
student@hafsa021:~$ ./setup.sh 8 Student
8 is NOT equal to 10 (-eq).
8 is not equal to 10 (-ne).
8 is NOT greater than 10 (-gt).
./setup.sh: line 19: syntax error near unexpected token `then'
./setup.sh: line 19: `f [ "$num" -lt 10 ]; then'
student@hafsa021:~$
```

```
              echo "$num is equal to 10 (-ne false)."
fi
if [ "$num" -gt 10 ]; then
              echo "$num is greater than 10 (-gt)."
    else
                  echo "$num is NOT greater than 10 (-gt)."
fi
f [ "$num" -lt 10 ]; then
    echo "$num is less than 10 (-lt)."
else
              echo "$num is NOT less than 10 (-lt)."
          fi
if [ "$num" -ge 10 ]; then
              echo "$num is greater than or equal to 10 (-ge)."
    else
                  echo "$num is NOT greater than or equal to 10 (-ge)."
fi
if [ "$num" -le 10 ]; then
              echo "$num is less than or equal to 10 (-le)."
    else
                  echo "$num is NOT less than or equal to 10 (-le)."
fi

-- INSERT --
```

```
student@hafsa021:~$ ./setup.sh 10 Student
10 is equal to 10 (-eq).
10 is equal to 10 (-ne false).
10 is NOT greater than 10 (-gt).
./setup.sh: line 19: syntax error near unexpected token `then'
./setup.sh: line 19: `f [ "$num" -lt 10 ]; then'
student@hafsa021:~$ ./setup.sh 12 Student
12 is NOT equal to 10 (-eq).
12 is not equal to 10 (-ne).
12 is greater than 10 (-gt).
./setup.sh: line 19: syntax error near unexpected token `then'
./setup.sh: line 19: `f [ "$num" -lt 10 ]; then'
student@hafsa021:~$
```

```
            echo "$num is NOT greater than 10 (-gt)."
fi
f [ "$num" -lt 10 ]; then
    echo "$num is less than 10 (-lt)."
else
            echo "$num is NOT less than 10 (-lt)."
        fi
if [ "$num" -ge 10 ]; then
            echo "$num is greater than or equal to 10 (-ge)."
    else
            echo "$num is NOT greater than or equal to 10 (-ge)."
fi
if [ "$num" -le 10 ]; then
            echo "$num is less than or equal to 10 (-le)."
    else
            echo "$num is NOT less than or equal to 10 (-le)."
fi
if [ "$str" = "Student" ]; then
            echo "Second argument equals 'Student' ( = )."
    else
            echo "Second argument does NOT equal 'Student' ( = )."
fi

-- INSERT --
```

```
student@hafsa021:~$ student@hafsa021:~$ ./setup.sh 10 Student
10 is equal to 10 (-eq).
10 is equal to 10 (-ne false).
10 is NOT greater than 10 (-gt).
./setup.sh: line 19: syntax error near unexpected token `then'
./setup.sh: line 19: `f [ "$num" -lt 10 ]; then'
student@hafsa021:~$ ./setup.sh 10 Test
10 is equal to 10 (-eq).
10 is equal to 10 (-ne false).
10 is NOT greater than 10 (-gt).
./setup.sh: line 19: syntax error near unexpected token `then'
./setup.sh: line 19: `f [ "$num" -lt 10 ]; then'
student@hafsa021:~$
```

```
                echo "$num is NOT less than 10 (-lt)."
        fi
if [ "$num" -ge 10 ]; then
                echo "$num is greater than or equal to 10 (-ge)."
    else
                echo "$num is NOT greater than or equal to 10 (-ge)."
fi
if [ "$num" -le 10 ]; then
                echo "$num is less than or equal to 10 (-le)."
    else
                echo "$num is NOT less than or equal to 10 (-le)."
fi
if [ "$str" = "Student" ]; then
                echo "Second argument equals 'Student' ( = )."
    else
                echo "Second argument does NOT equal 'Student' ( = )."
fi
if [ "$str" != "Student" ]; then
                echo "Second argument is not equal to 'Student' ( != )."
    else
                echo "Second argument equals 'Student' ( != false)."
fi

-- INSERT --
```

```
student@hafsa021:~$ ./setup.sh 10 Test
10 is equal to 10 (-eq).
10 is equal to 10 (-ne false).
10 is NOT greater than 10 (-gt).
./setup.sh: line 19: syntax error near unexpected token `then'
./setup.sh: line 19: `f [ "$num" -lt 10 ]; then'
student@hafsa021:~$ ./setup.sh 10 Student
10 is equal to 10 (-eq).
10 is equal to 10 (-ne false).
10 is NOT greater than 10 (-gt).
./setup.sh: line 19: syntax error near unexpected token `then'
./setup.sh: line 19: `f [ "$num" -lt 10 ]; then'
student@hafsa021:~$
```

```
            echo "$num is NOT greater than or equal to 10 (-ge)."
fi
if [ "$num" -le 10 ]; then
        echo "$num is less than or equal to 10 (-le)."
  else
        echo "$num is NOT less than or equal to 10 (-le)."
fi
if [ "$str" = "Student" ]; then
        echo "Second argument equals 'Student' ( = )."
  else
        echo "Second argument does NOT equal 'Student' ( = )."
fi
if [ "$str" != "Student" ]; then
        echo "Second argument is not equal to 'Student' ( != )."
  else
        echo "Second argument equals 'Student' ( != false)."
fi
if [ -z "$str" ]; then
        echo "Second argument is empty (zero-length)."
  else
        echo "Second argument is not empty."
fi


-- INSERT --
```

```
student@hafsa021:~$ ./setup.sh 10
10 is equal to 10 (-eq).
10 is equal to 10 (-ne false).
10 is NOT greater than 10 (-gt).
./setup.sh: line 19: syntax error near unexpected token `then'
./setup.sh: line 19: `f [ "$num" -lt 10 ]; then'
student@hafsa021:~$ ./setup.sh 10 Student
10 is equal to 10 (-eq).
10 is equal to 10 (-ne false).
10 is NOT greater than 10 (-gt).
./setup.sh: line 19: syntax error near unexpected token `then'
./setup.sh: line 19: `f [ "$num" -lt 10 ]; then'
student@hafsa021:~$
```

Task 12 – Script setup.sh – print all arguments with a for loop

```bash
#!/bin/bash
## Script to demonstrate printing all user-entered arguments using $*
#
```

student@hafsa021: ~

```bash
#!/bin/bash
## Script to demonstrate printing all user-entered arguments using $*
# Print all arguments using $*
 echo "Printing all arguments using \$*:"
  for arg in $*; do
    echo "Argument: $arg"
    done
```

```
student@hafsa021:~$ chmod +x setup.sh
student@hafsa021:~$ ./setup.sh one "two words" three
Printing all arguments using $*:
Argument: one
Argument: two
Argument: words
Argument: three
student@hafsa021:~$
```

Task 13 – Script setup.sh – while loop summation and functions

student@hafsa021: ~

```bash
#!/bin/bash#
#
```

```
student@hafsa021:~$ chmod +x setup.sh
student@hafsa021:~$ ./setup.sh
```

student@hafsa021: ~

```bash
#!/bin/bash#
 While-loop summation (interactive)
 sum=0
 while true; do
   read -p "Enter a number (or 'q' to quit): " input
     if [ "$input" = "q" ]; then
         break
          fi

            sum=$((sum + input))
              echo "Total Score: $sum"
              done
              echo "Final total: $sum"
#
```

```
student@hafsa021:~$ ./setup.sh
Enter a number (or 'q' to quit): 3
Total Score: 3
Enter a number (or 'q' to quit): 4
Total Score: 7
Enter a number (or 'q' to quit): q
Final total: 7
student@hafsa021:~$
```

student@hafsa021: ~

```
while true; do
   read -p "Enter a number (or 'q' to quit): " input
     if [ "$input" = "q" ]; then
         break
          fi

             sum=$((sum + input))
               echo "Total Score: $sum"
               done
               echo "Final total: $sum"
  # Function that sums two arguments and returns the result
  sum_args() {
     a=$1
       b=$2
         return $((a + b))
         }

         # Demonstrate sum_args function
         echo "Now demonstrating sum_args function:"
         sum_args 3 4
         result=$?
         echo "sum_args(3,4) returned: $result"

-- INSERT --
```

```
student@hafsa021:~$ chmod +x setup.sh
student@hafsa021:~$ ./setup.sh
Enter a number (or 'q' to quit): 2
Total Score: 2
Enter a number (or 'q' to quit): 4
Total Score: 6
Enter a number (or 'q' to quit): 5
Total Score: 11
Enter a number (or 'q' to quit): q
Final total: 11
Now demonstrating sum_args function:
sum_args(3,4) returned: 7
student@hafsa021:~$
```

Task 14 – Codespaces GUI — fork repo, run start-desktop.sh, open VNC, stop GUI

Create a new fork

A *fork* is a copy of a repository. Forking a repository allows you to freely experiment with changes without affecting the original project. [View existing forks.](#)

Required fields are marked with an asterisk (*).

Owner *

[🟢 Hafsa-Khalid021 ▾] **/**

Repository name *

[UbuntuMachine]

✅ **UbuntuMachine is available.**

By default, forks are named the same as their upstream repository. You can customize the name to distinguish it further.

Description

[   ]

0 / 350 characters

☑ Copy the `main` branch only

Contribute back to WaqasSaleem97/UbuntuMachine by adding your own branch. [Learn more.](#)

ⓘ You are creating a fork in your personal account.

[**Create fork**]

<> Code | Pull requests | ⊙ Actions | ⊞ Projects | 📖 Wiki | ⊘ Security | �︧ Insights | ⚙ Settings

🐸 UbuntuMachine Public

📌 Pin | 👁 Watch 0

forked from WaqasSaleem97/UbuntuMachine

⌥ main ▾ | ⌥ 1 Branch | ◌ 0 Tags

🔍 Go to file | t | Add file ▾ | <> Code ▾

This branch is up to date with `WaqasSaleem97/UbuntuMachine:main` .

⌥ Contribute ▾ | 🔄 Sync fork ▾

🐸 240438 Adding the stop script

5a1f77d · 2 weeks ago | 🕐 3 Commits

🗋 README.md	Initial commit	2 weeks ago
🗋 start-desktop.sh	Adding the stop script	2 weeks ago
🗋 stop-desktop.sh	Adding the stop script	2 weeks ago

📖 README | ✎

UbuntuMachine

Ubuntu Machine

```
Using installed websockify at /usr/bin/websockify
Starting webserver and WebSockets proxy on port 6080

(wrapper-2.0:19629): libupower-glib-WARNING **: 07:17:39.907: Couldn't connect to proxy: Co
uld not connect: No such file or directory

(wrapper-2.0:19629): xfce4-power-manager-plugin-WARNING **: 07:17:40.186: Xfce4-power-manag
er: The panel plugin is present, so the tray icon gets disabled.

(xfce4-session:19446): xfce4-session-WARNING **: 07:17:40.396: failed to run script: Failed
 to execute child process "/usr/bin/pm-is-supported" (No such file or directory)

(xfce4-session:19446): xfce4-session-WARNING **: 07:17:40.400: failed to run script: Failed
 to execute child process "/usr/bin/pm-is-supported" (No such file or directory)

(xfce4-session:19446): xfce4-session-WARNING **: 07:17:40.406: failed to run script: Failed
 to execute child process "/usr/bin/pm-is-supported" (No such file or directory)


Navigate to this URL:

    http://codespaces-23ced4:6080/vnc.html?host=codespaces-23ced4&port=6080

Press Ctrl-C to exit


[√] XFCE desktop environment is running!
🌐 Access it via the Codespaces HTTPS port (6080)
○ @Hafsa-Khalid021 →/workspaces/UbuntuMachine (main) $
(xfdesktop:19536): GVFS-RemoteVolumeMonitor-WARNING **: 07:17:41.916: remote volume monitor
 with dbus name org.gtk.vfs.UDisks2VolumeMonitor is not supported
WebSocket server settings:
  - Listen on :6080
  - Web server. Web root: /usr/share/novnc
  - No SSL/TLS support (no cert file)
  - proxying from :6080 to localhost:5901
```
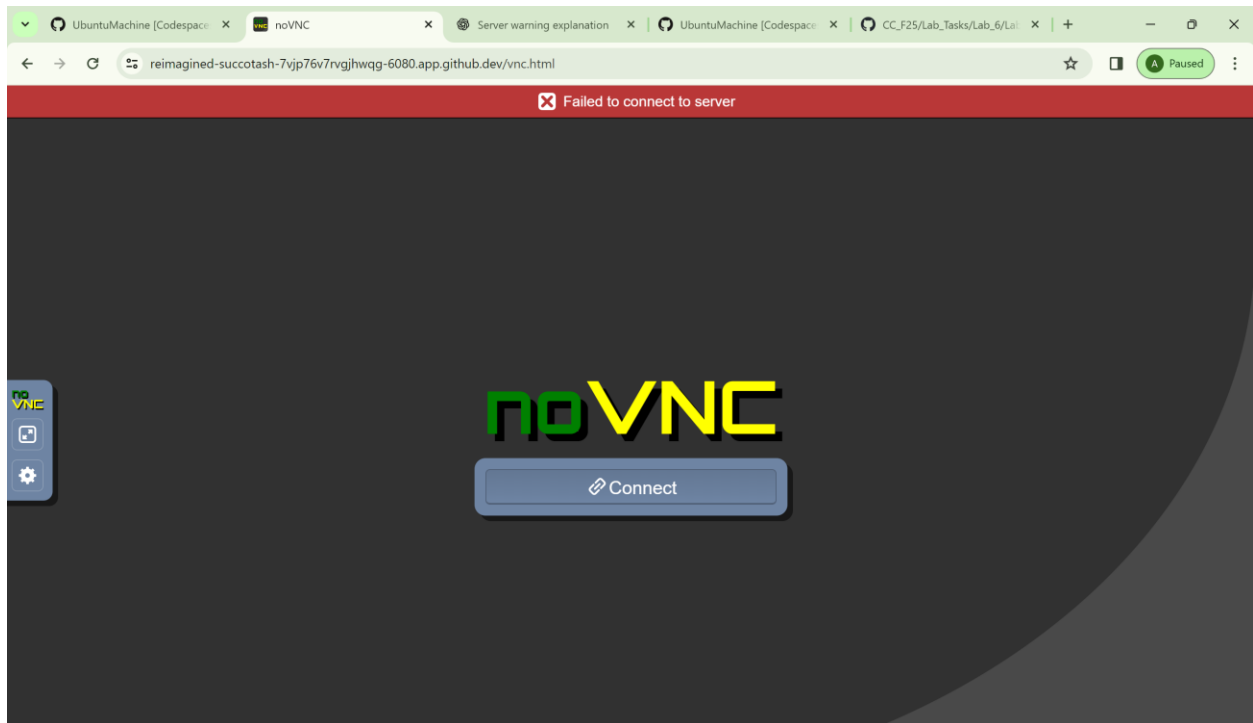
PROBLEMS	OUTPUT	DEBUG CONSOLE	TERMINAL	PORTS 3		
Port		**Forwarded Add...**	**Running Process**	**Visibility**		**Origin**
● 5901		https://expert-sp...	Xtightvnc :1 -desktop X -auth /...	🔒 Private		Auto Forwarded
● 6001		https://expert-sp...	Xtightvnc :1 -desktop X -auth /...	🔒 Private		Auto Forwarded
● 6080		https://expert-sp...	/usr/bin/python3 /usr/bin/web...	🔒 Private		Codespaces: exp...
Add Port						

Directory listing for /

- [app/](app/)
- core/
- include/
- utils/
- vendor/
- vnc.html
- [vnc_auto.html@](vnc_auto.html)
- vnc_lite.html

Password:

Send Credentials