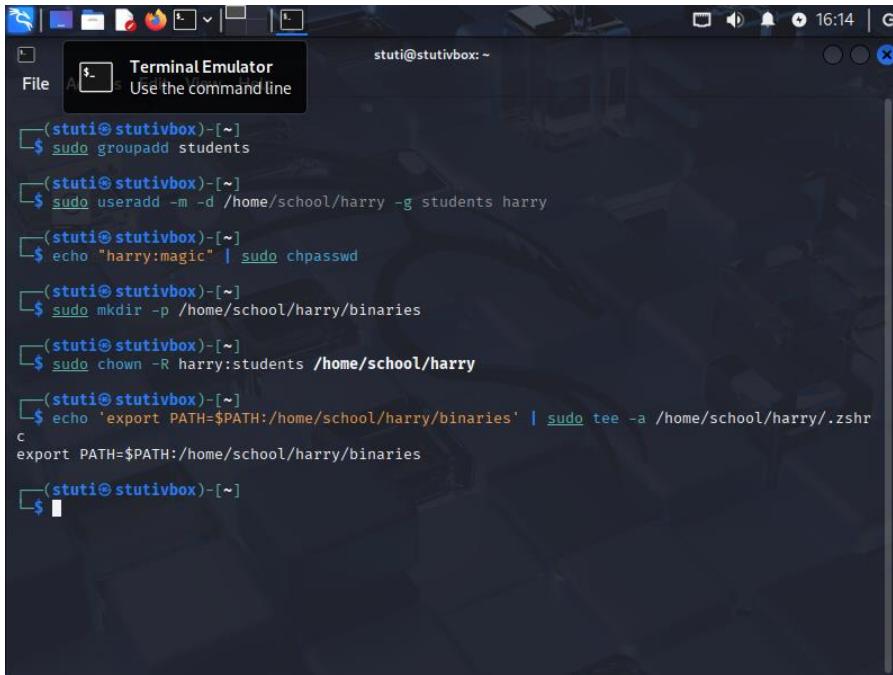


Linux and Shell Programming

Lab 3

S24CSEU2280_STUTI PANDA

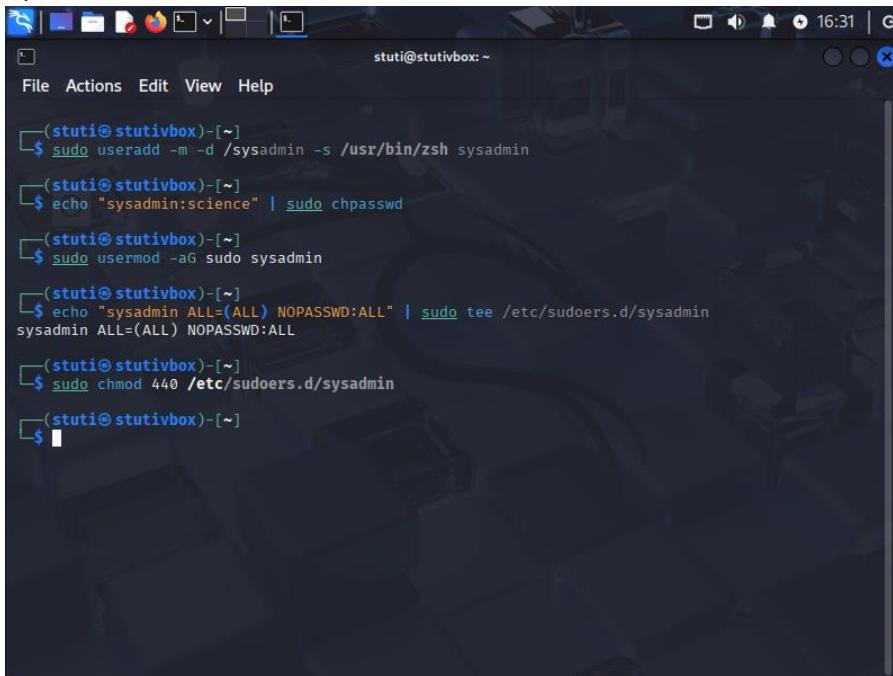
Question 1.



The terminal window shows the following command sequence:

```
stuti@stutivbox: ~
$ sudo groupadd students
(stuti@stutivbox)-[~]
$ sudo useradd -m -d /home/school/harry -g students harry
(stuti@stutivbox)-[~]
$ echo "harry:magic" | sudo chpasswd
(stuti@stutivbox)-[~]
$ sudo mkdir -p /home/school/harry/binaries
(stuti@stutivbox)-[~]
$ sudo chown -R harry:students /home/school/harry
(stuti@stutivbox)-[~]
$ echo 'export PATH=$PATH:/home/school/harry/binaries' | sudo tee -a /home/school/harry/.zshrc
c
export PATH=$PATH:/home/school/harry/binaries
(stuti@stutivbox)-[~]
$
```

Question 2.



The terminal window shows the following command sequence:

```
stuti@stutivbox: ~
File Actions Edit View Help
(stuti@stutivbox)-[~]
$ sudo useradd -m -d /sysadmin -s /usr/bin/zsh sysadmin
(stuti@stutivbox)-[~]
$ echo "sysadmin:science" | sudo chpasswd
(stuti@stutivbox)-[~]
$ sudo usermod -aG sudo sysadmin
(stuti@stutivbox)-[~]
$ echo "sysadmin ALL=(ALL) NOPASSWD:ALL" | sudo tee /etc/sudoers.d/sysadmin
sysadmin ALL=(ALL) NOPASSWD:ALL
(stuti@stutivbox)-[~]
$ sudo chmod 440 /etc/sudoers.d/sysadmin
(stuti@stutivbox)-[~]
$
```

```
(stuti@stutivbox)~]
$ echo "sysadmin:science" | sudo chpasswd
(stuti@stutivbox)~]
$ sudo usermod -aG sudo sysadmin
(stuti@stutivbox)~]
$ echo "sysadmin ALL=(ALL) NOPASSWD:ALL" | sudo tee /etc/sudoers.d/sysadmin
sysadmin ALL=(ALL) NOPASSWD:ALL
(stuti@stutivbox)~]
$ sudo chmod 440 /etc/sudoers.d/sysadmin
(stuti@stutivbox)~]
$ su -
Password:
(sysadmin@stutivbox)~]
$ whoami
sysadmin
(sysadmin@stutivbox)~]
$ echo $SHELL
/usr/bin/zsh
(sysadmin@stutivbox)~]
$ sudo whoami
root
(sysadmin@stutivbox)~]
$
```

Sample Problems.

```
(stuti@stutivbox)~]
$ sudo userdel -r test1
userdel: test1 mail spool (/var/mail/test1) not found
userdel: test1 home directory (/home/testuser) not found
(stuti@stutivbox)~]
$ sudo useradd -m -d /home/testuser test1
(stuti@stutivbox)~]
$ sudo useradd -m -s /bin/zsh -d /home/testuser2 test2
(stuti@stutivbox)~]
$ sudo useradd -m -c "Temp User" test3
(stuti@stutivbox)~]
$ sudo usermod -l test4 test3
(stuti@stutivbox)~]
$ sudo userdel -r test4
userdel: test4 mail spool (/var/mail/test4) not found
(stuti@stutivbox)~]
$ cat /etc/passwd | grep test
test1:x:1001:1001::/home/testuser:/bin/sh
test2:x:1002:1002::/home/testuser2:/bin/zsh
(stuti@stutivbox)~]
$
```