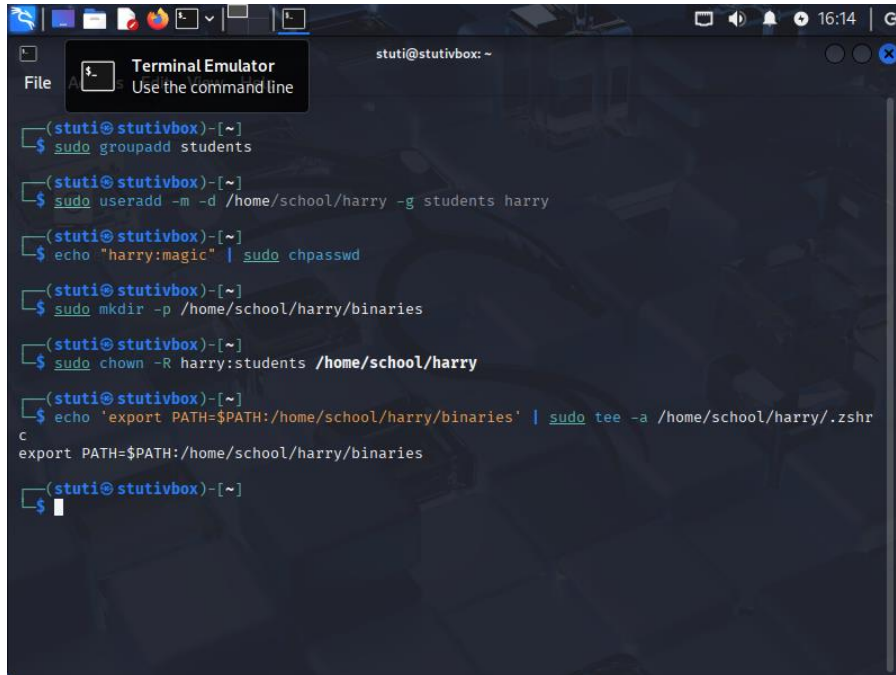


Linux and Shell Programming

Lab 3

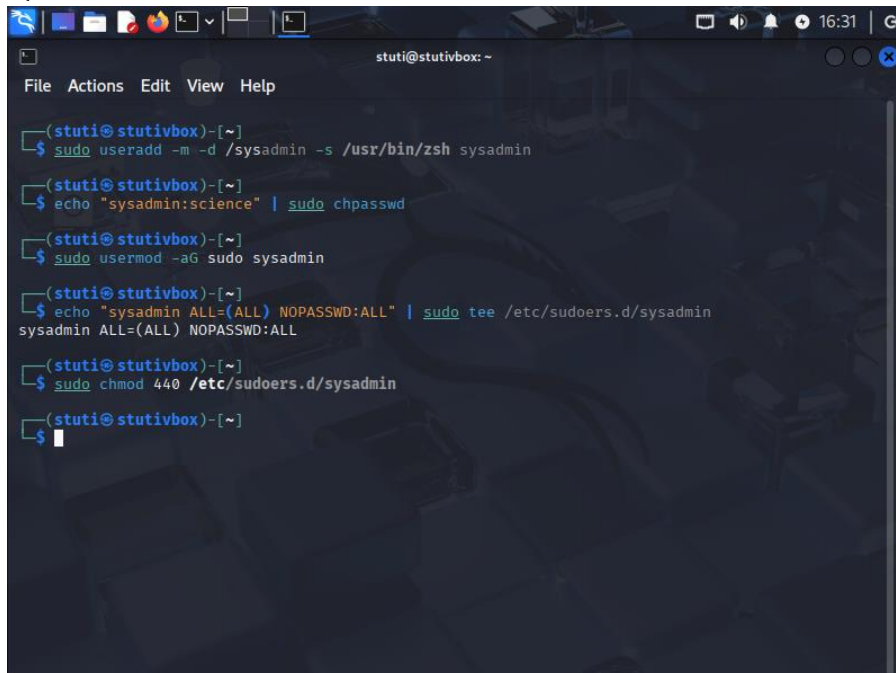
S24CSEU2280_STUTI PANDA

Question 1.



```
stuti@stutivbox: ~  
File [?] Terminal Emulator  
Use the command line  
(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=$PATH:/home/school/harry/binaries' | sudo tee -a /home/school/harry/.zshrc  
export PATH=$PATH:/home/school/harry/binaries  
(stuti@stutivbox)-[~]  
$
```

Question 2.



```
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)-[~]  
$
```

```
Minimize all open windows and show the desktop
File Actions Edit View Help

(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 - sysadmin
Password:
(sysadmin@stutivbox)-[~]
$ whoami
sysadmin

(sysadmin@stutivbox)-[~]
$ echo $SHELL
/usr/bin/zsh

(sysadmin@stutivbox)-[~]
$ sudo whoami
root

(sysadmin@stutivbox)-[~]
$
```

Sample Problems.

```
stuti@stutivbox: ~
File Actions Edit View Help

(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)-[~]
$
```