NSA LAB

1. exam@debian:~$ mkdir sales1
exam@debian:~$ cd sales1
exam@debian:~/sales1$ mkdir locations1
exam@debian:~/sales1/locations1$ touch sales1
exam@debian:~/sales1/locations1$ touch sales2
exam@debian:~/sales1/locations1$ touch sales3
exam@debian:~/sales1$ mkdir locations2
exam@debian:~/sales1/locations2$ echo this is my file >pur.txt
exam@debian:~/sales1/locations2$ echo new file by me >pur1.txt
exam@debian:~/sales1/locations2$ echo this is my file >pur2.txt
exam@debian:~/sales1/locations2$ cat pur1.txt
new file by me
exam@debian:~/sales1/locations2$ cat pur2.txt
this is my file
exam@debian:~/sales1$ mkdir locations3
exam@debian:~/sales1/locations3$ touch stock1.txt
exam@debian:~/sales1/locations3$ touch stock2.txt

Q1.exam@debian:~/sales1/locations2$ cat pur1.txt>>pur2.txt>>pur3.txt
exam@debian:~/sales1/locations2$ cat pur3.txt
this is my file
new file by me

Q2.exam@debian:~/sales1$ cp -r locations2/pur3.txt locations3/stock3.txt
exam@debian:~/sales1/locations3$ ls
stock1.txt stock2.txt stock3.txt stock.txt

Q3.exam@debian:~/sales1/locations3$ chmod a+rwx stock3.txt
exam@debian:~/sales1/locations3$ ls -l stock3.txt
-rwxrwxrwx 1 exam exam 31 Oct 8 14:30 stock3.txt

Q4.exam@debian:~/sales1/locations3$ head -n 10 stock1.txt
window
hello
hai
how are you
my name is
i'm
how old are you
where are you from
i'm from
india

Q5.exam@debian:~/sales1$ ls -al | more
total 24
drwxr-xr-x 5 exam exam 4096 Oct 8 14:17 .
drwxr-xr-x 22 exam exam 4096 Oct 8 14:08 ..
drwxr-xr-x 2 exam exam 4096 Oct 8 15:14 locations1
drwxr-xr-x 2 exam exam 4096 Oct 8 14:13 locations2
drwxr-xr-x 2 exam exam 4096 Oct 8 14:30 locations3
-rw-r--r-- 1 exam exam   31 Oct 8 14:17 stock3.txt

2.echo -e "Menu \n 1.Sphere \n 2.Cube \n 3.Cylinder"
echo "enter the choice"

```
read ch
case $ch in
   1)  echo " enter the radius value"
         read r
         ((a = `expr 22 \* $r \* $r \* $r / 7`))
         echo "volume of a Sphere is:$sphere = `expr 4 \* $a / 3`";;
   2) echo "enter the side"
      read a
      echo "volume of a cube is:$circle = `expr $a \* $a \* $a`";;
   3) echo "enter the radius"
      read r
      echo "enter the height"
      read h
      echo "volume of a cyclinder is:$cyclinder = `expr 22 \* $r \* $r \* $h  / 7`";;
   esac
```

OUTPUT

```
exam@debian:~/sales1/locations1$ bash volume.sh
Menu
 1.Sphere
 2.Cube
 3.Cylinder
enter the choice
1
 enter the radius value
5
volume of a Sphere is: = 522
exam@debian:~/sales1/locations1$ bash volume.sh
Menu
 1.Sphere
 2.Cube
 3.Cylinder
enter the choice
2
enter the side
5
volume of a cube is: = 125
exam@debian:~/sales1/locations1$ bash volume.sh
Menu
 1.Sphere
 2.Cube
 3.Cylinder
enter the choice
3
enter the radius
4
enter the height
3
volume of a cyclinder is: = 150
```