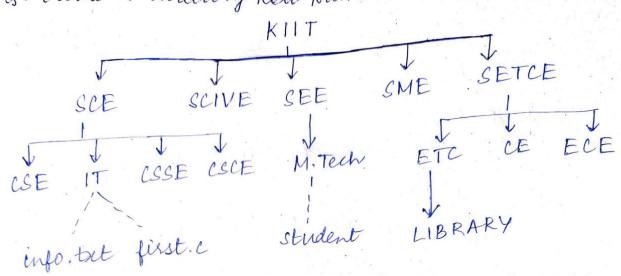
ANIRBAN HAZRA 2005643

Anisban Hazza

OS LABORATORY 1

& treate a directory Rell Number, under that.



a) Create files and directories according to the above structure:

4 mKdir 2005643

4 cd 2005643

4 mKdir KIIT

4 cd KIIT

4 cd KIIT

5 mKdir SCE SCIVE SEE SME SETCE

4 cd SCE

4 mKdir CSE IT CSSE CSCE

4 cd IT

\$ cat > info. tet. The name of this file is info. tet. & cat > first. c The mane of this file is first. C \$ cd · · \$ cd.. S cd SEE & mkdir M. Tech & cd M. Teeh \$ cat > student. The name of this file is student. 9 cd . " 9 cd . . & COLSETCE & mkdir ETC CE ECE \$ cd ETC & mkdir LIBRARY \$ cd .. \$ cd ..

SCREENSHOT:

```
kitt@kitt-VirtualBox:~$ mkdir 2005643
kitt@kitt-VirtualBox:~$ cd 2005643
kitt@kitt-VirtualBox:~$ cd 2005643$ mkdir KIIT
kitt@kitt-VirtualBox:~$ c005643$ cd KIIT
kitt@kitt-VirtualBox:~$ c005643$ kIIT$ mkdir SCE SCIVE SEE SME SETCE
kitt@kitt-VirtualBox:~$ c005643$ kIIT$ cd SCE
kitt@kitt-VirtualBox:~$ c005643$ kIIT$ cd SCE
kitt@kitt-VirtualBox:~$ c005643$ kIIT$ cd SCE
kitt@kitt-VirtualBox:~$ c005643$ kIIT$ cd IT
kitt@kitt-VirtualBox:~$ c005643$ kIIT$ cd IT
kitt@kitt-VirtualBox:~$ c005643$ kIIT$ cd IT$ cat > first.c
The name of this file is info.txt
kitt@kitt-VirtualBox:~$ c005643$ kIIT$ cd IT$ cd .
kitt@kitt-VirtualBox:~$ c005643$ kIIT$ cd SEE
kitt@kitt-VirtualBox:~$ c005643$ kIIT$ cd SET
kitt@kitt-VirtualBox:~$ c005643$ kIIT$ cd SET
kitt@kitt-VirtualBox:~$ c005643$ kIIT$ cd SET
kitt@kitt-VirtualBox:~$ c005643$ kIIT$ cd SETC
kitt@kitt-VirtualBox:~$ c005643$ kIIT$ cd SETCE
kitt@kitt-VirtualBox:~$ c005643$ kIIT$ cd SETCE$ mkdir ETC CE ECE
kitt@kitt-VirtualBox:~$ c005643$ kIIT$ cd SETCE$ cd .
kitt@k
```

b) Rename the file info. txt to itstudentdata. txt, \$\frac{1}{2} \text{cd} \text{SCE/IT} \quad \text{mv} info. txt itstudentdata. txt.

SCREENSHOT:

```
kiit@kiit-VirtualBox:~/2005643/KIIT$ cd SCE/IT
kiit@kiit-VirtualBox:~/2005643/KIIT/SCE/IT$ mv info.txt itstudentdata.txt
kiit@kiit-VirtualBox:~/2005643/KIIT/SCE/IT$ ls
first.c itstudentdata.txt
```

c) copy the file first.c into directory CE with the same name:

\$ cp first.c /home/kit/2005643/KIIT/SETCE/CE

```
kiit@kiit-VirtualBox:~/2005643/KIIT/SCE/IT$ cp first.c /home/kiit/2005643/KIIT/SETCE/CE
kiit@kiit-VirtualBox:~/2005643/KIIT/SCE/IT$ cd ..
kiit@kiit-VirtualBox:~/2005643/KIIT/SCE$ cd ..
kiit@kiit-VirtualBox:~/2005643/KIIT$ cd SETCE/CE
kiit@kiit-VirtualBox:~/2005643/KIIT/SETCE/CE$ ls
first.c
```

d) copy the file first.c into directory SME with a new name hello.c.

\$ cp first.c /home/Kilt/2005643/KIIT/SME/kello.c.

SCREENSHOT:

```
ciit@kiit-VirtualBox:~/2005643/KIIT/SETCE/CE$ cd ..
ciit@kiit-VirtualBox:~/2005643/KIIT/SETCE$ cd ..
ciit@kiit-VirtualBox:~/2005643/KIIT$ cd SCE/IT
ciit@kiit-VirtualBox:~/2005643/KIIT/SCE/IT$ cp first.c /home/kiit/2005643/KIIT/SME/hello.c
ciit@kiit-VirtualBox:~/2005643/KIIT/SCE/IT$ cd ..
ciit@kiit-VirtualBox:~/2005643/KIIT/SCE$ cd ..
ciit@kiit-VirtualBox:~/2005643/KIIT$ cd SME
ciit@kiit-VirtualBox:~/2005643/KIIT/SME$ ls
nello.c
```

```
e) Transfer file student into SCIVE and check if
transferred or not.
$cd..
$cd..
$cd..
$mv Student /home/Kiit/2005643/KIIT/SCIVE
$cd..
$cd..
$cd..
$td..
$td..
$td..
$td..
$td..
```

```
kiit@kiit-VirtualBox:~/2005643/KIIT/SME$ cd ..
kiit@kiit-VirtualBox:~/2005643/KIIT$ cd SEE/M.Tech
kiit@kiit-VirtualBox:~/2005643/KIIT/SEE/M.Tech$ mv student /home/kiit/2005643/KIIT/SCIVE
kiit@kiit-VirtualBox:~/2005643/KIIT/SEE/M.Tech$ cd ..
kiit@kiit-VirtualBox:~/2005643/KIIT/SEE$ cd ..
kiit@kiit-VirtualBox:~/2005643/KIIT$ cd SCIVE
kiit@kiit-VirtualBox:~/2005643/KIIT$CIVE$ ls
kitudent
```

OS LABORATORY 2

Q1. Write a Shell Script (WASS) to do calculator Asithmetic operators. program using PROGRAM LODE:

to do the calculator program. echo enter 2 numbers. read a b

c= 'expr fa + \$ b' d= \$((a * b)) e= 'expr \$a - \$b' f= 'expr \$a / \$b'

echo Sum is & c echo Product is & d echo Difference is \$e

echo quotient is \$ f.

OUTPUT: enter 2 numbers. Sum is 15 Product is 50 Difference is 5 Quotient is 2

```
#to do the calculator program
echo enter 2 numbers
 =$((a * b))
   expr $a - $b'
expr $a / $b'
```

```
kiit@kiit-VirtualBox:~$ vi calculator
kiit@kiit-VirtualBox:~$ sh calculator
enter 2 numbers
10 5
Sum is 15
Product is 50
Differnce is 5
Quotient is 2
```

82. WASS to find the average of 3 numbers.

PROGRAM CODE:

To find average of 3 numbers.

echo Enter 3 numbers

read a b c

read a b c

d = 'expr \$a + \$b + \$c'

e = 'expr \$d / 3'

echo Average of 3 numbers is \$e

OUTPUT: Enter 3 numbers 4 6 8 Average of 3 numbers is 6

```
#To find average of 3 numbers

echo Enter 3 numbers

read a b c

d=`expr $a + $b + $c`

e=`expr $d / 3`

echo Average of 3 numbers is $e
```

```
kiit@kiit-VirtualBox:~$ vi average
kiit@kiit-VirtualBox:~$ sh average
Enter 3 numbers
4 6 8
Average of 3 numbers is 6
```

B3. WASS to find the Simple Interest, When P, R, T are given.

PROGRAM CODE:

Calculate the Simple Interest

echo Enter P, R and T

read PRT

SI='expr &P * &T * &R /100'

echo Simple Interest is \$SI

OUT PUT:

Enter P, R and T

2000 4 10

Simple Interest is 800.

SCREENSHOT:

#calculate the simple interest echo Enter P, R and T read P R T SI=`expr \$P * \$T * \$R / 100` echo Simple Interest is \$SI

kiit@kiit-VirtualBox:~\$ sh simple_interest Enter P, R and T 2000 4 10 Simple Interest is 800 BY WASS to find area of a triangle when base and height are given.

PROGRAM CODE:

Area of a Triangle

echo Enter base and height of Triangle

read b h

ar = \$(((b*h)/2))

echo Area of Triangle is \$ar.

OUTPUT:

Enter base and Height of Triangle

5 4

Area of Triangle is 10.

```
#Area of Triangle
echo Enter base and Height of Triangle
read b h
ar=$(((b * h)/2))
echo Area of Triangle is $ar
```

```
kiit@kiit-VirtualBox:~$ vi Triangle
kiit@kiit-VirtualBox:~$ sh Triangle
Enter base and Height of Triangle
5 4
Area of Triangle is 10
```

```
Q5 WASS to find area and circumference of a circle.

PROGRAM CODE:

#Area and circumference of a circle.

echo Enter the Radius of circle.

read x

ar = $ [bc << " $x * $x * $x"])

c = $ [bc << " 2 * 3.14 * $x"])

echo circumference is $ $c$

echo Area is $ $ax.

OUTPUT

Enter the Radius of Circle

circumference is 31.40

Area is 78.50.
```

```
#Area and Circumference of a Circle
echo Enter the Radius of Circle
read r
ar=$(bc <<< "$r * $r * 3.14")
c=$(bc <<< "2 * 3.14 * $r")
echo Circumference is $c .
echo Area is $ar
```

```
kiit@kiit-VirtualBox:~$ bash circle
Enter the Radius of Circle
5
Circumference is 31.40 .
Area is 78.50
```