

```
Activities Terminal Feb 11 19:53
keerthi@keerthi-VirtualBox: ~
keerthi@keerthi-VirtualBox:~$ echo Task 3
Task 3
keerthi@keerthi-VirtualBox:~$ ls
array.sh  Downloads  fruits  Pictures  sample.sh  veg
college   fast       Music   Public    snap        Videos
Desktop   fast2.txt  number  sample1.sh  spvar.sh
Documents file1.txt  op.sh   sample1.txt  Templates
keerthi@keerthi-VirtualBox:~$ echo>textbook
keerthi@keerthi-VirtualBox:~$ cat textbook
keerthi@keerthi-VirtualBox:~$ nano textbook
Error reading /home/keerthi/.local/share/nano/search_history: Permission denied
keerthi@keerthi-VirtualBox:~$ cat textbook
Basic Engineering Mathematics
keerthi@keerthi-VirtualBox:~$ x=10
keerthi@keerthi-VirtualBox:~$ y=20
keerthi@keerthi-VirtualBox:~$ echo $((x+y))
30
keerthi@keerthi-VirtualBox:~$ echo $((x*y))
200
keerthi@keerthi-VirtualBox:~$ echo $x-$y
10-20
keerthi@keerthi-VirtualBox:~$ echo $y-$x
20-10
keerthi@keerthi-VirtualBox:~$ unset x
keerthi@keerthi-VirtualBox:~$ echo $x
keerthi@keerthi-VirtualBox:~$
```

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keerthi@keerthi-VirtualBox: ~

```
keerthi@keerthi-VirtualBox:~$ x=30
keerthi@keerthi-VirtualBox:~$ y=50
keerthi@keerthi-VirtualBox:~$ echo $x
30
keerthi@keerthi-VirtualBox:~$ bash
keerthi@keerthi-VirtualBox:~$ echo $x
30
keerthi@keerthi-VirtualBox:~$ a=10
keerthi@keerthi-VirtualBox:~$ echo $a
10
keerthi@keerthi-VirtualBox:~$ export a
keerthi@keerthi-VirtualBox:~$ exit
exit
keerthi@keerthi-VirtualBox:~$ echo $a
10
keerthi@keerthi-VirtualBox:~$ export x
keerthi@keerthi-VirtualBox:~$ bash
keerthi@keerthi-VirtualBox:~$ echo $x
30
keerthi@keerthi-VirtualBox:~$ sh
$ echo $x
30
$ echo $a
10
$ z=9
$ echo $z
9
$ exit
keerthi@keerthi-VirtualBox:~$
```

```
Activities Terminal Feb 11 20:01
keerthi@keerthi-VirtualBox: ~
keerthi@keerthi-VirtualBox:~$ cat>alpha
a
g
h
y
s
x
f
e
v
keerthi@keerthi-VirtualBox:~$ cat alpha
a
g
h
y
s
x
f
e
v
keerthi@keerthi-VirtualBox:~$ pr -3 alpha | more
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a s e
g x v
h f i
```

Activities Terminal Feb 11 20:06

keerthi@keerthi-VirtualBox: ~

```
keerthi@keerthi-VirtualBox:~$ cat alpha
a
g
h
y
s
x
f
e
v
keerthi@keerthi-VirtualBox:~$ sort alpha
a
e
f
g
h
i
s
v
x
y
keerthi@keerthi-VirtualBox:~$ sort -r alpha
y
x
v
s
i
h
g
f
e
a
keerthi@keerthi-VirtualBox:~$
```

```
Activities Terminal Feb 11 20:09
keerthi@keerthi-VirtualBox: ~
keerthi@keerthi-VirtualBox:~$ cat>numbers
7
45
21
16
36
100
5000
1
0
358
keerthi@keerthi-VirtualBox:~$ sort -n numbers
0
1
7
16
21
36
45
100
358
5000
keerthi@keerthi-VirtualBox:~$ sort -nr numbers
5000
358
100
45
36
21
16
7
1
0
keerthi@keerthi-VirtualBox:~$
```

Activities Terminal Feb 11 20:25

keerthi@keerthi-VirtualBox: ~

```
keerthi@keerthi-VirtualBox:~$ vim add.sh
keerthi@keerthi-VirtualBox:~$ cat add.sh
echo "Give me two numbers to add"
read p
read q
echo "The sum of your numbers is: , $((p+q))"

keerthi@keerthi-VirtualBox:~$ sh add.sh
Give me two numbers to add
50
50
The sum of your numbers is: , 100
keerthi@keerthi-VirtualBox:~$ vim profile.sh
keerthi@keerthi-VirtualBox:~$ cat profile.sh
echo " College "
name="NSS College of Engineering"
students=2500
staffs=350
echo " This is $name "
echo "There are $students students "
echo "There are $staffs staffs "
keerthi@keerthi-VirtualBox:~$ sh profile.sh
College
This is NSS College of Engineering
There are 2500 students
There are 350 staffs
keerthi@keerthi-VirtualBox:~$
```

Activities Terminal Feb 11 20:49

keerthi@keerthi-VirtualBox: ~

```
keerthi@keerthi-VirtualBox:~$ vim sp.sh
keerthi@keerthi-VirtualBox:~$ cat sp.sh
echo "The first parameter is:$1"
echo "The second parameter is:$2"
echo "The third parameter is:$3"
echo "The quoted parameter is:$@"
echo "The quoted parameter is:$*"
echo "Total number of arguments passed is:$#"
keerthi@keerthi-VirtualBox:~$ sh sp.sh GOOD MORNING FRIENDS
The first parameter is:GOOD
The second parameter is:MORNING
The third parameter is:FRIENDS
The quoted parameter is:GOOD MORNING FRIENDS
The quoted parameter is:GOOD MORNING FRIENDS
Total number of arguments passed is:3
keerthi@keerthi-VirtualBox:~$ vim newarray.sh
keerthi@keerthi-VirtualBox:~$ cat newarray.sh
veg[0]="Tomato"
veg[1]="Potato"
veg[2]="Onion"
veg[3]="Ladiesfinger"
veg[4]="Brinjal"

echo "My favourite vegitable is: ${veg[4]}"
echo "Mostly used vegetable is: ${veg[2]}"
echo "List of vegetables in array are: ${veg[*]}"

keerthi@keerthi-VirtualBox:~$ bash
keerthi@keerthi-VirtualBox:~$ bash newarray.sh
My favourite vegitable is: Brinjal
Mostly used vegetable is: Onion
List of vegetables in array are: Tomato Potato Onion Ladiesfinger Brinjal
keerthi@keerthi-VirtualBox:~$
```

Activities Terminal Feb 11 21:01

keerthi@keerthi-VirtualBox: ~

```
keerthi@keerthi-VirtualBox:~$ vim ao.sh
keerthi@keerthi-VirtualBox:~$ cat ao.sh
echo "ARITHMETIC OPERATOR"
echo "Enter two numbers to perform operations"
read a
read b
echo "sum = `expr $((a+b)) `"
echo "Difference = `expr $((a-b)) `"
echo "Product = `expr $((a*b)) `"
echo "Quotient = `expr $((a/b)) `"
echo "Remainder = `expr $((a%b)) `"
echo "Checking Equality = `expr $((a==b)) `"
echo "Checking inequality = `expr $((a!=b)) `"
echo "Equal = `expr $((a=b)) `"
keerthi@keerthi-VirtualBox:~$ sh ao.sh
ARITHMETIC OPERATOR
Enter two numbers to perform operations
10
5
sum = 15
Difference = 5
Product = 50
Quotient = 2
Remainder = 0
Checking Equality = 0
Checking inequality = 1
Equal = 5
keerthi@keerthi-VirtualBox:~$
```