

OS LAB 2

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PES2201800499

EXERCISE 1:

```
Hello siddharth
Today is
Sun Sep 13 11:20:22 IST 2020
Number of user login :
1
Calendar
    September 2020
Su Mo Tu We Th Fr Sa
    1  2  3  4  5
  6  7  8  9 10 11 12
13 14 15 16 17 18 19
20 21 22 23 24 25 26
27 28 29 30

siddharth@moby-dick:~/education/os2$
```

Why is statement `exit 0` used?

Return code 0 means that everything executed successfully without any errors. Exit makes the script stop at that particular point and then returns to the command line.

What is the meaning of `$` ?

`$` shows the contents of the variable. Prefixing a variable name with `$` indicates the value the variable holds.

EXERCISE 2:

```
siddharth@moby-dick:~$ bash $HOME
/home/siddharth: /home/siddharth: Is a directory
siddharth@moby-dick:~$
```

EXERCISE 3:

```
siddharth@moby-dick:~/education/os2$ expr 1 + 3
4
siddharth@moby-dick:~/education/os2$ expr 2 - 1
1
siddharth@moby-dick:~/education/os2$ expr 10 / 2
5
siddharth@moby-dick:~/education/os2$ expr 20 % 3
2
siddharth@moby-dick:~/education/os2$ expr 10 \* 3
30
siddharth@moby-dick:~/education/os2$ echo `expr 6 + 3`
9
```

EXERCISE 4:

Single quote (') :

Preserves all the special characters within the string.

Double quote (") :

Preserves most of the special characters within the string

(for example

```
#!/bin/sh
```

```
MYVAR=sometext
```

```
echo "double quotes gives you $MYVAR"
```

```
echo 'single quotes gives you $MYVAR'
```

Output

```
double quotes gives you sometext
```

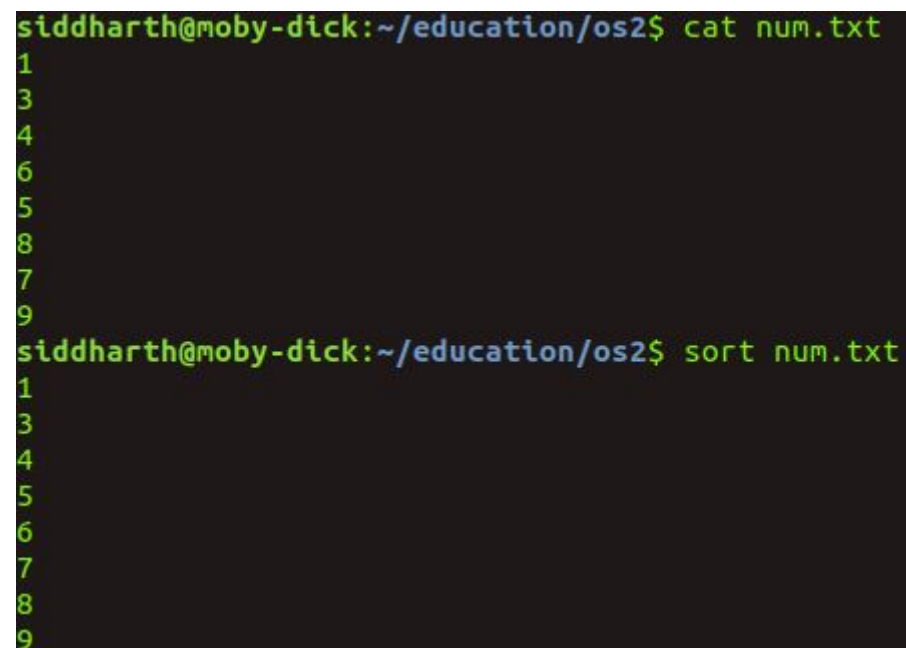
```
single quotes gives you $MYVAR
```

```
)
```

Back quote (`) :

makes available the output of commands for assignment to a variable.

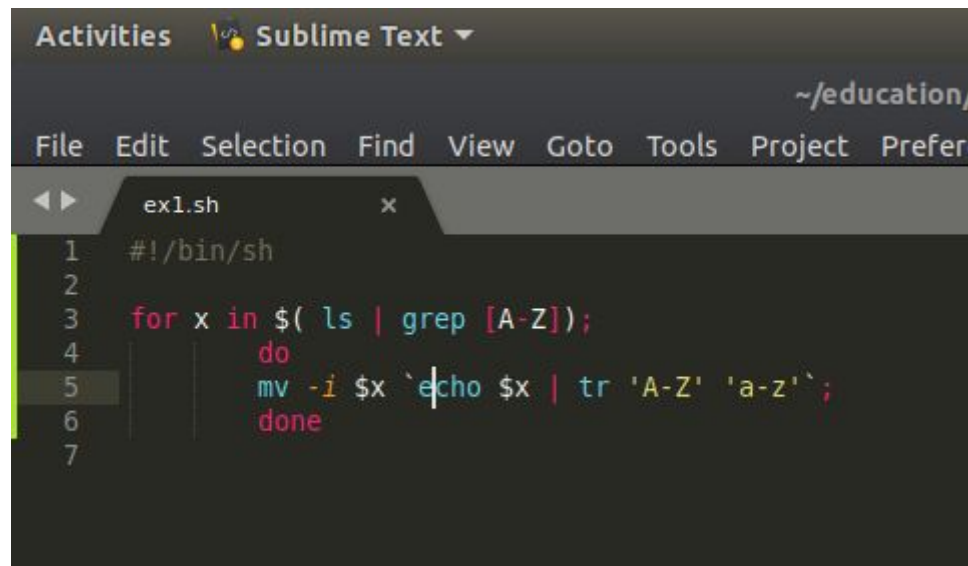
EXERCISE 5:



```
siddharth@moby-dick:~/education/os2$ cat num.txt
1
3
4
6
5
8
7
9
siddharth@moby-dick:~/education/os2$ sort num.txt
1
3
4
5
6
7
8
9
```

EXERCISE 6:

```
siddharth@moby-dick:~/education/os2/siddharth_PES2201800499$ ls
ABC ex1.sh foo1.c foo2.TXT myfile.Xa sample Test
siddharth@moby-dick:~/education/os2/siddharth_PES2201800499$ chmod 755 ex1.sh
siddharth@moby-dick:~/education/os2/siddharth_PES2201800499$ bash ex1.sh
siddharth@moby-dick:~/education/os2/siddharth_PES2201800499$ ls
abc ex1.sh foo1.c foo2.txt myfile.xa sample test
siddharth@moby-dick:~/education/os2/siddharth_PES2201800499$
```



```
Activities Sublime Text
~/education/
File Edit Selection Find View Goto Tools Project Prefer
ex1.sh x
1 #!/bin/sh
2
3 for x in $( ls | grep [A-Z]);
4     do
5         mv -i $x `echo $x | tr 'A-Z' 'a-z'`;
6     done
7
```