```
student@dslab:~/Desktop/190905170$ echo $HOME, $PATH
/home/student, /usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin
:/bin:/usr/games:/usr/local/games:/snap/bin
student@dslab:~/Desktop/190905170$ echo $MAIL

student@dslab:~/Desktop/190905170$ echo $USER,$SHELL,$TERM
student,/bin/sh,xterm-256color
student@dslab:~/Desktop/190905170$
```

Exercise 1

```
student@dslab:~/Desktop/190905170$ firstname=Rakesh
student@dslab:~/Desktop/190905170$ lastname=Sharma
student@dslab:~/Desktop/190905170$ echo $firstname $lastname
Rakesh Sharma
student@dslab:~/Desktop/190905170$ export lastname
student@dslab:~/Desktop/190905170$ sh
$ echo $fistname $lastnamee

$
student@dslab:~/Desktop/190905170$ echo $firstname $lastname
Rakesh Sharma
student@dslab:~/Desktop/190905170$
```

```
student@dslab:~/Desktop/190905170/week_2$ cat >script.sh
echo the name of the first argument is $0
echo the first argument $1
echo a list of all arguments is $*
echo this script places the date into a temporary file
echo called $1.$$
date > $1.$$
ls $1.$$
rm $1.$$
student@dslab:~/Desktop/190905170/week_2$ chmod +x script.sh
student@dslab:~/Desktop/190905170/week_2$ ./script.sh Rahul Sachin Kum
ble
the name of the first argument is ./script.sh
the first argument Rahul
a list of all arguments is Rahul Sachin Kumble
this script places the date into a temporary file
called Rahul.6431
Rahul.6431
student@dslab:~/Desktop/190905170/week_2$
```

Exercise 2

Exercise 3, All shell scripts

Common to all

```
student@dslab:~/Desktop/190905170/week_2$ cat > script.sh
echo "this is a script"student@dslab:~/Desktop/190905170/week_2$
student@dslab:~/Desktop/190905170/week_2$ chmod +x script.sh
student@dslab:~/Desktop/190905170/week_2$ ./script.sh
this is a script
student@dslab:~/Desktop/190905170/week_2$
```

All files present in week_2

```
student@dslab:~/Desktop/190905170/week_2$ ls
1.c  a.txt  list1        scriptq2.sh  scriptq5.sh
2.c  A.txt  list2        scriptq3.sh  scriptq6.sh
3.t  file3  scriptq1.sh  scriptq4.sh  script.sh
student@dslab:~/Desktop/190905170/week_2$
```

script 1 :

```
student@dslab:~/Desktop/190905170/week_2$ cat scriptq1.sh
ls *.?
```

output 1 :

```
student@dslab:~/Desktop/190905170/week_2$ ./scriptq1.sh
1.c  2.c  3.t
```

script 2 :

```
student@dslab:~/Desktop/190905170/week_2$ cat scriptq2.sh
cd $1
ls *$2*
```

output 2 :

```
student@dslab:~/Desktop/190905170/week_2$ ./scriptq2.sh ~/Desktop/190905170/week_2 txt
a.txt  A.txt
student@dslab:~/Desktop/190905170/week_2$ clear

student@dslab:~/Desktop/190905170/week_2$ ./scriptq2.sh ~/Desktop/190905170/week_2 txt
a.txt  A.txt
student@dslab:~/Desktop/190905170/week_2$ ./scriptq2.sh ~/Desktop/190905170/week_2 a
a.txt
student@dslab:~/Desktop/190905170/week_2$ ./scriptq2.sh ~/Desktop/190905170/week_2 x
a.txt  A.txt
student@dslab:~/Desktop/190905170/week_2$
```

` **script 3**

```
student@dslab:~/Desktop/190905170/week_2$ cat scriptq3.sh
echo "the number of users are"
who | wc -l
```

output 3

```
student@dslab:~/Desktop/190905170/week_2$ ./scriptq3.sh
the number of users are
1
```

script 4

```
student@dslab:~/Desktop/190905170/week_2$ cat scriptq4.sh
ls|wc -l
```

output 4

```
student@dslab:~/Desktop/190905170/week_2$ ./scriptq4.sh
15
```

script 5

```
student@dslab:~/Desktop/190905170/week_2$ cat scriptq5.sh
cat $1 $2 > file3
sort -nu  file3
```

list 1, list 2 and output 5

```
student@dslab:~/Desktop/190905170/week_2$ cat list1
1
2
3
4
5
6
7
8
student@dslab:~/Desktop/190905170/week_2$ cat list2
5
6
7
8
9
10
student@dslab:~/Desktop/190905170/week_2$ ./scriptq5.sh list1 list2
1
2
3
4
5
6
7
8
9
10
```

script 6 :

```
student@dslab:~/Desktop/190905170/week_2$ cat scriptq6.sh
cp *$1 $2
```

output 6

```
student@dslab:~/Desktop/190905170/week_2$ ./scriptq6.sh txt ~/Desktop
student@dslab:~/Desktop/190905170/week_2$ cd ../..
student@dslab:~/Desktop$ ls
 190905170   A.txt            'OST_Lab_Manual_20-21(1).pdf'
 a.txt       JavaFXSkel.java
student@dslab:~/Desktop$ ls *txt
a.txt  A.txt
```

`