OST LAB: Week 2

Ex-1)

Q1)

echo \$HOME,\$PATH echo \$MAIL echo \$USER,\$SHELL,\$TERM

Q2)

firstname=Ayush
lastname=Goyal
echo \$firstname \$lastname
export lastname
sh
\$echo \$firstname \$lastname
^D
echo \$firstname \$lastname

```
student@dslab:~

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student@dslab:~$ firstname=Ayush
student@dslab:~$ lastname=Goyal
student@dslab:~$ echo $firstname $lastname
Ayush Goyal
student@dslab:~$ sh
$ echo $firstname $lastname
Goyal
$

student@dslab:~$ echo $firstname $lastname
Ayush Goyal
$
student@dslab:~$ echo $firstname $lastname
Ayush Goyal
student@dslab:~$ []
```

Q3)

cat>script.sh
echo the name of this script is \$0
echo the first argument is \$1
echo a list of all the arguments is \$*
echo this script places the date into a temporary file
echo called \$1.\$\$
date>\$1.\$\$
rm \$1.\$\$

```
00
                                    student@dslab: ~
File Edit View Search Terminal Help
student@dslab:~$ cat>script.sh
echo the name of this script is $0
echo the first argument is $1
echo a list of all the arguments is $*
echo this script places the date into a temporary file
echo called $1.$$
date>$1.$$
rm $1.$$
student@dslab:~$ chmod +x script.sh
student@dslab:~$ ./script.sh Rahul Sachin Kumble
the name of this script is ./script.sh
the first argument is Rahul
a list of all the arguments is Rahul Sachin Kumble
this script places the date into a temporary file
called Rahul.6294
student@dslab:~$
```

Ex 2)

Q1) (sleep 10;echo done)& ps

Q2) (sleep 10;echo done)& kill 6465

```
student@dslab: ~
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student@dslab:~$ (sleep 10;echo done)&
[1] 6465
student@dslab:~$ kill 6465
student@dslab:~$ ps
 PID TTY
                  TIME CMD
6142 pts/0
              00:00:00 sh
6143 pts/0
              00:00:00 bash
6467 pts/0
              00:00:00 ps
[1]+ Terminated
                              ( sleep 10; echo done )
student@dslab:~$
```

Q3)

(sleep 20;echo done1)& (sleep 30;echo done2)& echo done2;wait;echo done4

```
student@dslab: ~
File Edit View Search Terminal Help
student@dslab:~$ (sleep 20;echo done1)&
[1] 6514
student@dslab:~$ (sleep 30;echo done2)&
[2] 6516
student@dslab:~$ echo done3;wait;echo done4
done3
done1
[1]-
     Done
                               ( sleep 20; echo done1 )
done2
[2]+ Done
                               ( sleep 30; echo done2 )
done4
student@dslab:~$
```

Ex 3)

Q1)

cat>script.sh echo `ls \$1/*.[a-zA-Z]` ./script.sh Desktop/dir/sub2/

```
student@dslab: ~

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student@dslab: ~$ cat>script.sh
echo `ls $1/*.[a-zA-Z]`
^C
student@dslab: ~$ ./script.sh Desktop/dir/sub2/
Desktop/dir/sub2//hello2.c Desktop/dir/sub2//hello.c

student@dslab: ~$ □
```

Q2)

cat>script.sh echo `ls \$1/\$2` ./script.sh Desktop/dir/sub2 *.txt

```
student@dslab: ~

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student@dslab:~$ cat>script.sh
echo `ls $1/$2`
^C
student@dslab:~$ ./script.sh Desktop/dir/sub2 *.txt
Desktop/dir/sub2/a.txt Desktop/dir/sub2/A.txt Desktop/dir/sub2/b.txt Desktop/dir
/sub2/file1.txt Desktop/dir/sub2/new.txt Desktop/dir/sub2/out.txt
student@dslab:~$ □
```

Q3)
cat>script.sh
echo Number of users logged into the system: `who|wc -l`
./script.sh

```
student@dslab:~

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student@dslab:~$ cat>script.sh
echo Number of users logged into the system: `who|wc -l`
^C
student@dslab:~$ ./script.sh
Number of users logged into the system: 1
student@dslab:~$ □
```

Q4)
cat>script.sh
echo Number of files in current directory: `ls \$pwd|wc -l`
^C
./script.sh

```
student@dslab: ~

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student@dslab:~$ cat>script.sh
echo Number of files in current directory: `ls $pwd|wc -l`
^C
student@dslab:~$ ./script.sh
Number of files in current directory: 16
student@dslab:~$ □
```

Q5)
cat>script.sh
sort -un \$1 \$2>out.txt
chmod +x script.sh
./script.sh num1.txt num2.txt

cat>script.sh cp *.\$1 \$2 ./script.sh txt Desktop/dir

```
student@dslab: ~/Desktop/dir
File Edit View Search Terminal Help
student@dslab:~$ touch q6a.txt q6b.txt
student@dslab:~$ ls
             Downloads
                                     file4
                                                 Public res
                                                                          snap
                                    Music q6a.txt result Template Pictures q6b.txt script.sh Videos
Desktop
             examples.desktop Music
                                                                          Templates
Documents f1
student@dslab:~$ cat>script.sh
cp *.$1 $2
^C
student@dslab:~$ ./script.sh txt /Desktop/dir
cp: target '/Desktop/dir' is not a directory
student@dslab:~$ ./script.sh txt Desktop/dir
student@dslab:~$ cd Desktop/dir
student@dslab:~/Desktop/dir$ ls
num1.txt num2.txt out.txt q6a.txt q6b.txt script.sh sub1 sub2
student@dslab:~/Desktop/dir$ [
```