```
Lab exercise 1
```

1)

```
190905104@lplab-Lenovo-Product:~$ echo $HOME, $PATH
/home/190905104, /home/190905104/bin:/home/190905104/.loca
l/bin:/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/s
bin:/bin:/usr/games:/usr/local/games:/snap/bin
190905104@lplab-Lenovo-Product:~$ echo $MAIL
190905104@lplab-Lenovo-Product:~$ echo $USER, $SHELL, $TER
190905104, , xterm-256color
```

2) 190905104@lplab-Lenovo-Product:~\$ firstname=Parth 190905104@lplab-Lenovo-Product:~\$ lastname=Shukla 190905104@lplab-Lenovo-Product:~\$ echo \$firstname \$lastnam Parth Shukla <u> 1909051040lplab-Lenovo-Product:~\$ export lastname</u> LibreOffice Writer |-Lenovo-Product:~\$ sh \$ ^[[A^[[A^[[B^[[B sh: 1: : not found \$ echo \$firstname \$lastname Shukla 190905104@lplab-Lenovo-Product:~\$ echo \$firstname \$lastnam Parth Shukla

3) 190905104@lplab-Lenovo-Product:~\$./script.sh Parth Shukla LibreOffice Calc his script is ./script.sh ument is Parth list of arguments Parth Shukla script places date in a temporary file called Parth.5129 Parth.5129

Lab exercise 2

1) and 2)

```
190905104@lplab-Lenovo-Product:~$ (sleep 10; echo done) &
[1] 5195
190905104@lplab-Lenovo-Product:~$ ps
  PID TTY
                    TIME CMD
 5172 pts/19 00:00:00 bash
 5195 pts/19 00:00:00 bash
 5196 pts/19 00:00:00 sleep
5197 pts/19 00:00:00 ps
190905104@lplab-Lenovo-Product:~$ done
                                ( sleep 10; echo done )
|[1]+ Done
190905104@lplab-Lenovo-Product:~$ (sleep 10; echo done) &
[1] 5199
190905104@lplab-Lenovo-Product:~$ kill 5199
190905104@lplab-Lenovo-Product:~$
```

```
190905104@lplab-Lenovo-Product:~$ (sleep 10; echo done1) &
[1] 5244
190905104@lplab-Lenovo-Product:~$ (sleep 10; echo done2) &
[2] 5246
190905104@lplab-Lenovo-Product:~$ echo done3;wait; echo done4
done3
done1
[1]-
                              ( sleep 10; echo done1 )
     Done
done2
                              ( sleep 10; echo done2 )
[2]+ Done
done4
190905104@lplab-Lenovo-Product:~$
190905104@lplab-Lenovo-Product:~$
```

End questions

1)

```
190905104@lplab-Lenovo-Product:~/lab2$ cat > q1.sh ls *.?
190905104@lplab-Lenovo-Product:~/lab2$
```

Output:

```
190905104@lplab-Lenovo-Product:~/lab2$ chmod +x q1.sh
190905104@lplab-Lenovo-Product:~/lab2$ ./q1.sh
example.c
```

2)
190905104@lplab-Lenovo-Product:~/lab2\$ cat > q2.sh
cd \$1
ls *\$2*

Output:

```
190905104@lplab-Lenovo-Product:~/lab2$ chmod +x q2.sh
190905104@lplab-Lenovo-Product:~/lab2$ ./q2.sh /home/190905104/lab2 sh
q1.sh q2.sh
190905104@lplab-Lenovo-Product:~/lab2$
```

190905104@lplab-Lenovo-Product:~/lab2\$ cat > q3.sh echo Number of users: who | wc -l

Output:

```
190905104@lplab-Lenovo-Product:~/lab2$ chmod +x q3.sh
190905104@lplab-Lenovo-Product:~/lab2$ ./q3.sh
Number of users:
```

```
190905104@lplab-Lenovo-Product:~/lab2$ cat > q4.sh
ls | wc -l

190905104@lplab-Lenovo-Product:~/lab2$ chmod +x q4.sh
190905104@lplab-Lenovo-Product:~/lab2$ ./q4.sh

5

190905104@lplab-Lenovo-Product:~/lab2$ cat > q5.txt
echo files to be merged $1 $2
cat $1 $2 > merged.txt
sort -nu merged.txt
```

Output:

```
190905104@lplab-Lenovo-Product:~/lab2$ cat > file1.txt

1
3
5
7
9
190905104@lplab-Lenovo-Product:~/lab2$ cat > file2.txt

2
4
6
8
10
190905104@lplab-Lenovo-Product:~/lab2$ ./q5.sh file1.txt file2.txt
files to be merged file1.txt file2.txt

1
2
3
4
5
6
7
8
9
10
```

```
190905104@lplab-Lenovo-Product:~/lab2$ cat > q6.sh
ls *.$1
echo to be copied to $2
cp *.$1 $2
```

Output:

```
190905104@lplab-Lenovo-Product:~/lab2$ chmod +x q6.sh
190905104@lplab-Lenovo-Product:~/lab2$ ./q6.sh cpp /home/190905104/lab2/Copied
move1.cpp move2.cpp
to be copied to /home/190905104/lab2/Copied
190905104@lplab-Lenovo-Product:~/lab2$ cd Copied/
190905104@lplab-Lenovo-Product:~/lab2/Copied$ ls
move1.cpp move2.cpp
190905104@lplab-Lenovo-Product:~/lab2/Copied$
```