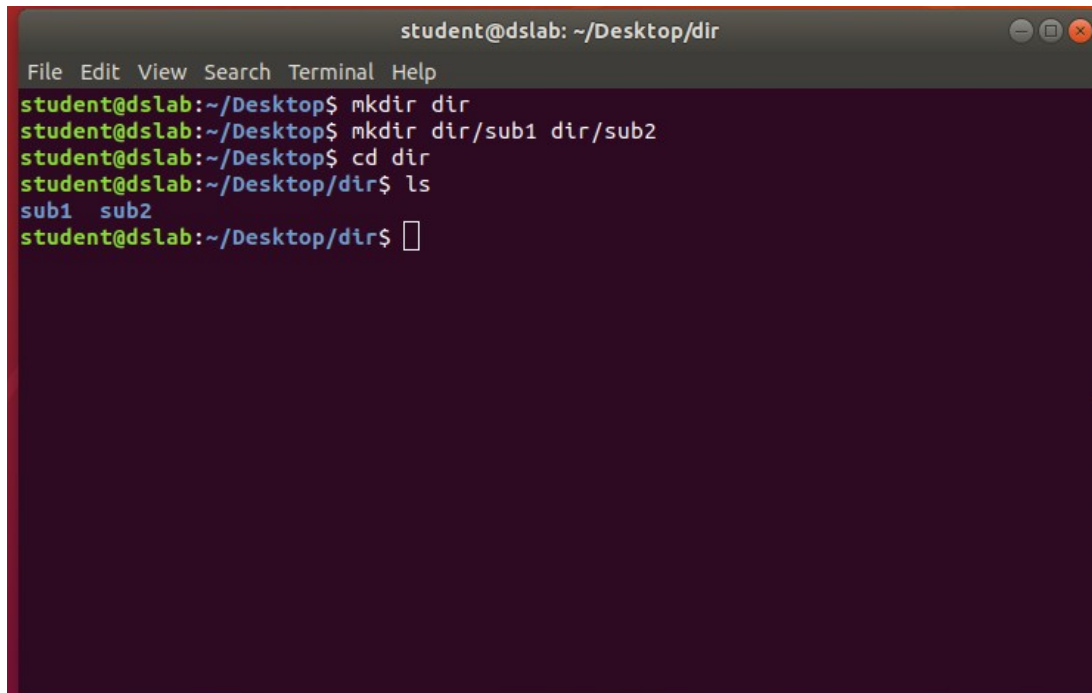


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OST LAB: Week 1

Q1) i)

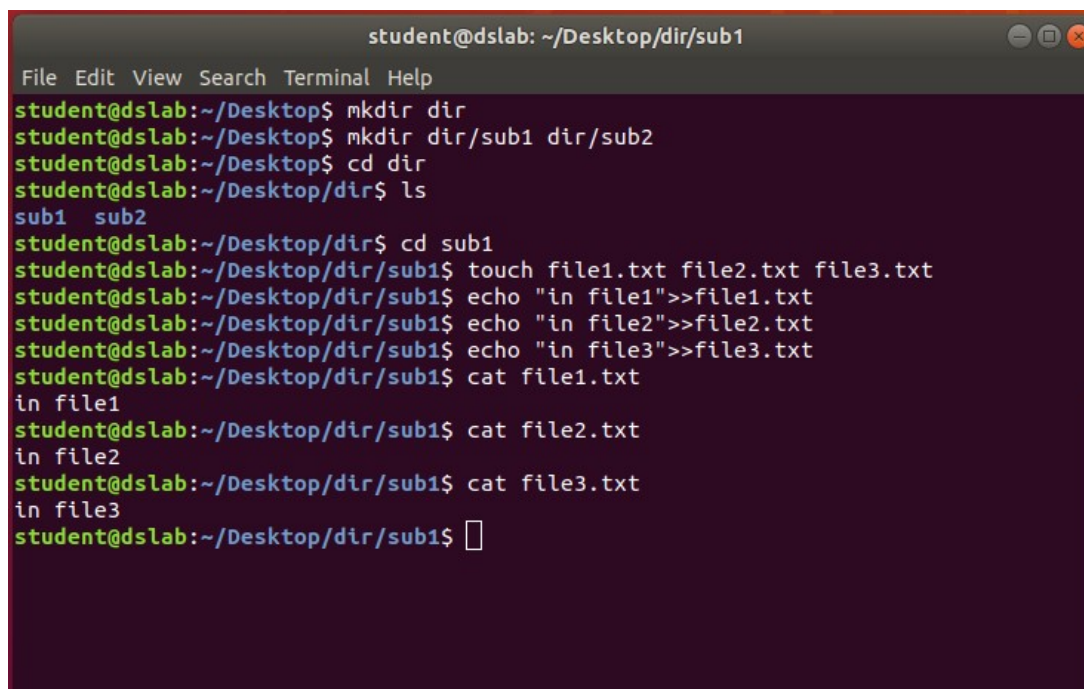
```
mkdir dir
mkdir dir/sub1 dir/sub2
```

A terminal window titled 'student@dslab: ~/Desktop/dir' with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal shows the following commands and output:

```
student@dslab:~/Desktop$ mkdir dir
student@dslab:~/Desktop$ mkdir dir/sub1 dir/sub2
student@dslab:~/Desktop$ cd dir
student@dslab:~/Desktop/dir$ ls
sub1  sub2
student@dslab:~/Desktop/dir$
```

ii)

```
touch file1.txt file2.txt file3.txt
echo "in file1">>file1.txt
echo "in file2">>file2.txt
echo "in file3">>file3.txt
```

A terminal window titled 'student@dslab: ~/Desktop/dir/sub1' with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal shows the following commands and output:

```
student@dslab:~/Desktop$ mkdir dir
student@dslab:~/Desktop$ mkdir dir/sub1 dir/sub2
student@dslab:~/Desktop$ cd dir
student@dslab:~/Desktop/dir$ ls
sub1  sub2
student@dslab:~/Desktop/dir$ cd sub1
student@dslab:~/Desktop/dir/sub1$ touch file1.txt file2.txt file3.txt
student@dslab:~/Desktop/dir/sub1$ echo "in file1">>file1.txt
student@dslab:~/Desktop/dir/sub1$ echo "in file2">>file2.txt
student@dslab:~/Desktop/dir/sub1$ echo "in file3">>file3.txt
student@dslab:~/Desktop/dir/sub1$ cat file1.txt
in file1
student@dslab:~/Desktop/dir/sub1$ cat file2.txt
in file2
student@dslab:~/Desktop/dir/sub1$ cat file3.txt
in file3
student@dslab:~/Desktop/dir/sub1$
```

iii)

cp file1.txt ../sub2/

```
student@dslab: ~/Desktop/dir/sub2
File Edit View Search Terminal Help
student@dslab:~/Desktop/dir/sub1$ touch file1.txt file2.txt file3.txt
student@dslab:~/Desktop/dir/sub1$ echo "in file1">>file1.txt
student@dslab:~/Desktop/dir/sub1$ echo "in file2">>file2.txt
student@dslab:~/Desktop/dir/sub1$ echo "in file3">>file3.txt
student@dslab:~/Desktop/dir/sub1$ cat file1.txt
in file1
student@dslab:~/Desktop/dir/sub1$ cat file2.txt
in file2
student@dslab:~/Desktop/dir/sub1$ cat file3.txt
in file3
student@dslab:~/Desktop/dir/sub1$ cp file1.txt ../sub2/
student@dslab:~/Desktop/dir/sub1$ cd..
cd..: command not found
student@dslab:~/Desktop/dir/sub1$ cd ./sub2
bash: cd: ./sub2: No such file or directory
student@dslab:~/Desktop/dir/sub1$ cd .
student@dslab:~/Desktop/dir/sub1$ cd..
cd..: command not found
student@dslab:~/Desktop/dir/sub1$ cd ..
student@dslab:~/Desktop/dir$ cd sub2
student@dslab:~/Desktop/dir/sub2$ ls
file1.txt
student@dslab:~/Desktop/dir/sub2$
```

iv)

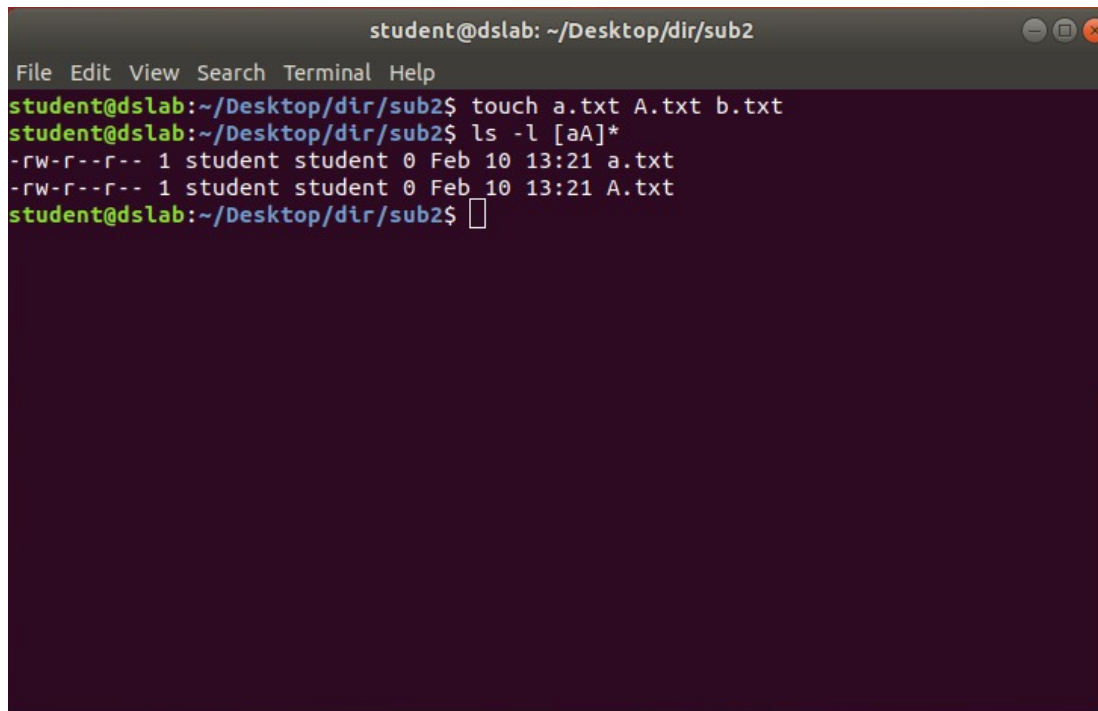
who|wc -l>out.txt

ls|wc -l>>out.txt

```
student@dslab: ~/Desktop/dir/sub2
File Edit View Search Terminal Help
student@dslab:~/Desktop/dir/sub1$ cat file2.txt
in file2
student@dslab:~/Desktop/dir/sub1$ cat file3.txt
in file3
student@dslab:~/Desktop/dir/sub1$ cp file1.txt ../sub2/
student@dslab:~/Desktop/dir/sub1$ cd..
cd..: command not found
student@dslab:~/Desktop/dir/sub1$ cd ./sub2
bash: cd: ./sub2: No such file or directory
student@dslab:~/Desktop/dir/sub1$ cd .
student@dslab:~/Desktop/dir/sub1$ cd..
cd..: command not found
student@dslab:~/Desktop/dir/sub1$ cd ..
student@dslab:~/Desktop/dir$ cd sub2
student@dslab:~/Desktop/dir/sub2$ ls
file1.txt
student@dslab:~/Desktop/dir/sub2$ touch out.txt
student@dslab:~/Desktop/dir/sub2$ who|wc -l>out.txt
student@dslab:~/Desktop/dir/sub2$ ls|wc -l>>out.txt
student@dslab:~/Desktop/dir/sub2$ cat out.txt
1
2
student@dslab:~/Desktop/dir/sub2$
```

v)

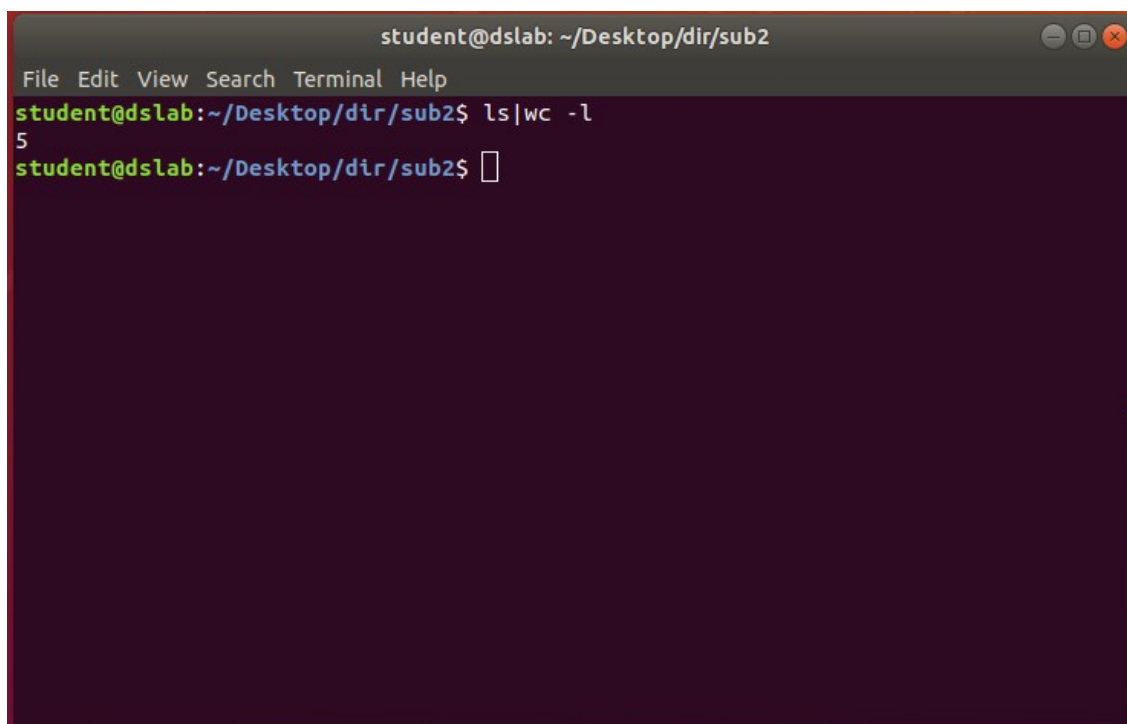
`ls -l[aA]*`



```
student@dslab: ~/Desktop/dir/sub2
File Edit View Search Terminal Help
student@dslab:~/Desktop/dir/sub2$ touch a.txt A.txt b.txt
student@dslab:~/Desktop/dir/sub2$ ls -l [aA]*
-rw-r--r-- 1 student student 0 Feb 10 13:21 a.txt
-rw-r--r-- 1 student student 0 Feb 10 13:21 A.txt
student@dslab:~/Desktop/dir/sub2$
```

vi)

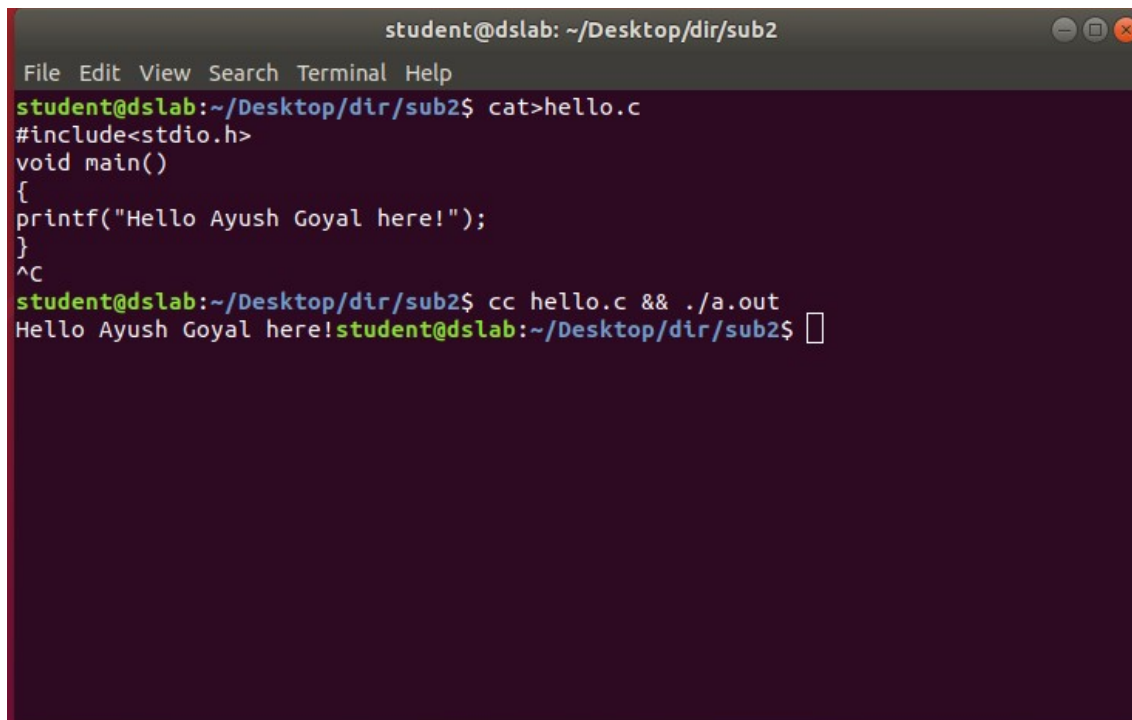
`ls|wc -l`



```
student@dslab: ~/Desktop/dir/sub2
File Edit View Search Terminal Help
student@dslab:~/Desktop/dir/sub2$ ls|wc -l
5
student@dslab:~/Desktop/dir/sub2$
```

vii)

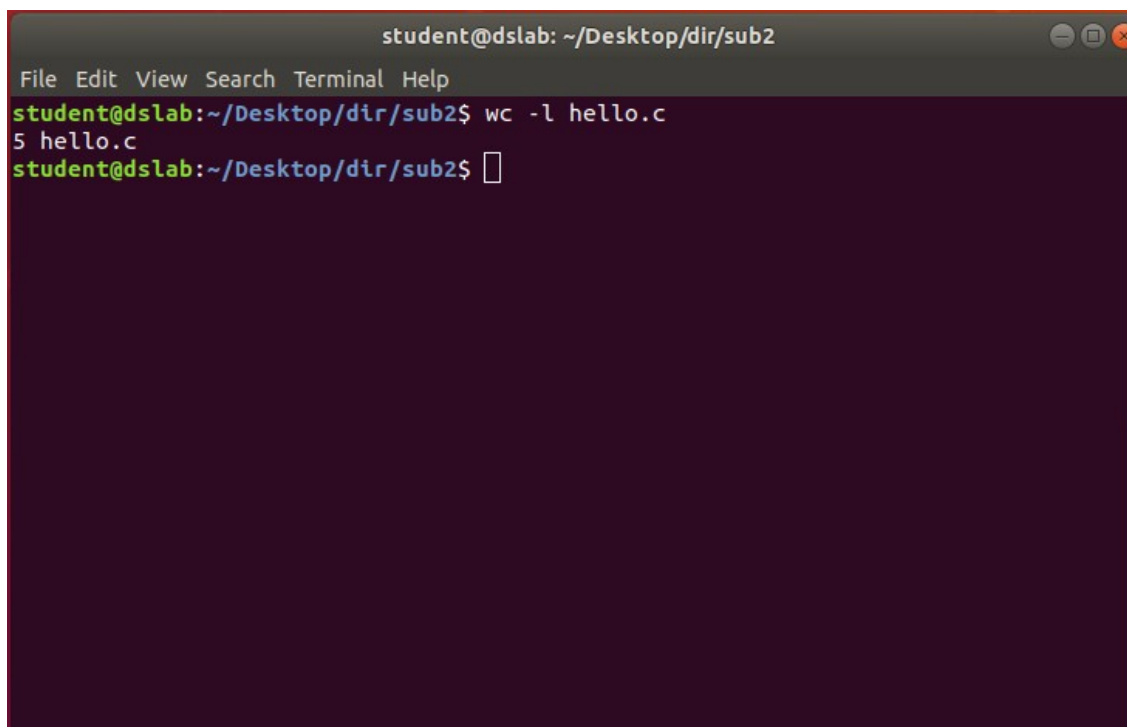
cc hello.c && ./a.out



```
student@dslab: ~/Desktop/dir/sub2
File Edit View Search Terminal Help
student@dslab:~/Desktop/dir/sub2$ cat>hello.c
#include<stdio.h>
void main()
{
printf("Hello Ayush Goyal here!");
}
^C
student@dslab:~/Desktop/dir/sub2$ cc hello.c && ./a.out
Hello Ayush Goyal here!student@dslab:~/Desktop/dir/sub2$
```

viii)

wc -l hello.c



```
student@dslab: ~/Desktop/dir/sub2
File Edit View Search Terminal Help
student@dslab:~/Desktop/dir/sub2$ wc -l hello.c
5 hello.c
student@dslab:~/Desktop/dir/sub2$
```

Q2)

date && ls && pwd

```
student@dslab: ~/Desktop/dir/sub2
File Edit View Search Terminal Help
student@dslab:~/Desktop/dir/sub2$ date && ls && pwd
Wed Feb 10 13:25:59 IST 2021
a.out a.txt A.txt b.txt file1.txt hello.c out.txt
/home/student/Desktop/dir/sub2
student@dslab:~/Desktop/dir/sub2$
```

Additional Exercises:

1)

```
student@dslab: ~/Desktop/dir/sub2
File Edit View Search Terminal Help
student@dslab:~/Desktop/dir/sub2$ touch hello2.c
student@dslab:~/Desktop/dir/sub2$ cat>hello2.c
#include<stdio.h>
void main()
{
printf("Hello Ayush Goyal here!")
}
^C
student@dslab:~/Desktop/dir/sub2$ cc hello2.c||echo "error"
hello2.c: In function 'main':
hello2.c:5:1: error: expected ';' before '}' token
}
^
error
student@dslab:~/Desktop/dir/sub2$ touch new.txt
student@dslab:~/Desktop/dir/sub2$ cat>new.txt
This is
a text block
which is written
in new.txt
^C
student@dslab:~/Desktop/dir/sub2$ ls *
a.out a.txt A.txt b.txt file1.txt hello2.c hello.c new.txt out.txt
student@dslab:~/Desktop/dir/sub2$ who|wc -l
1
student@dslab:~/Desktop/dir/sub2$
```