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D1 - 19BCE245
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Practical 3

a) Write a shell script to compare the contents of two files.

Code :

```
1. echo -e "\nComparing two files using 'sdiff'"
2. sdiff sample1.txt sample2.txt
3. echo -e "\nComparing two files using 'vimdiff'"
4. vimdiff sample1.txt sample2.txt
5. echo -e "\nComparing two files using 'diff'"
6. diff sample1.txt sample2.txt
7. echo -e "\nComparing two files using 'cmp'"
8. cmp sample1.txt sample2.txt
9. echo -e "\nComparing two files using 'comm'"
10. comm sample1.txt sample2.txt
```

Files attached :

sample1.txt	sample2.txt
Hello everyone	Hello everyone
Good Morning !	Good Afternoon !
I am Aayush Shah	I am Ayush
Thank you.	Thanks.

OUTPUT:

```
aayush@aayush-VirtualBox:/media/sf_Operating_System/Lab/practical3$ ./3a.sh

Comparing two files using 'sdiff'
Hello everyone
Good Morning !
I am Aayush Shah
Thank you.

Hello everyone
| Good Afternoon !
| I am Ayush
| Thanks.

Comparing two files using 'vimdiff'
./3a.sh: line 10: vimdiff: command not found

Comparing two files using 'diff'
2,4c2,4
< Good Morning !
< I am Aayush Shah
< Thank you.
---
> Good Afternoon !
> I am Ayush
> Thanks.

Comparing two files using 'cmp'
sample1.txt sample2.txt differ: byte 21, line 2

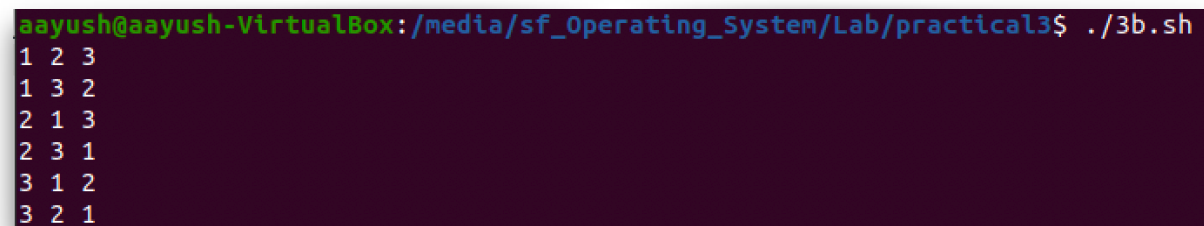
Comparing two files using 'comm'
Hello everyone
Good Afternoon !
Good Morning !
I am Aayush Shah
I am Ayush
Thanks.
Thank you.
```

- b) Write a shell script to generate all the combinations of 1, 2 and 3.

Code :

```
1. for number1 in 1 2 3;
2. do
3.     for number2 in 1 2 3;
4.     do
5.         for number3 in 1 2 3;
6.         do
7.             if [ $number1 != $number2 ] && [ $number1 !=
            $number3 ] && [ $number2 != $number3 ];
8.             then
9.                 echo "$number1 $number2 $number3";
10.            fi
11.        done
12.    done
13. done
```

OUTPUT :

A terminal window with a dark purple background. The prompt is 'aayush@aayush-VirtualBox:/media/sf_Operating_System/Lab/practical3\$'. The command './3b.sh' has been executed, resulting in the following output:

```
aayush@aayush-VirtualBox:/media/sf_Operating_System/Lab/practical3$ ./3b.sh
1 2 3
1 3 2
2 1 3
2 3 1
3 1 2
3 2 1
```