[OS-LAB4-Submission]

[M . S A L M A N]
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Catalog

TASK 1

1. CODE

```cpp
#include<iostream>
#include<fstream>

using namespace std;

int main(int n,char** arg){
        string line;
        fstream file;

        for(int i=1; i<=n;i++){
                file.open(arg[i],ios::in);
                if(!file) continue;

                while(getline(file,line)) cout<<line<<endl;
                file.close();
        }
}
```

2. DEMO

```
salman@salman-virtual-machine:~/lab4$ g++ -o obj task1.cpp
salman@salman-virtual-machine:~/lab4$ ./obj 1.txt 2.txt
1
2
3
4
5
6
7
8
9
10
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
```

TASK 2

1. CODE

```cpp
1 #include<iostream>
2 #include<string>
3 #include<fstream>
4
5 using namespace std;
6
7 int main(int n,char** arg){
8         fstream file;
9         string line;
10        string value = arg[1];
11        char* filename = arg[2];
12
13        file.open(filename,ios::in);
14        if(!file) exit(0);
15
16        while(getline(file,line)){
17                if(line.find(value)!=string::npos) cout<<line<<endl;
18        }
19
20
21 }
22
```
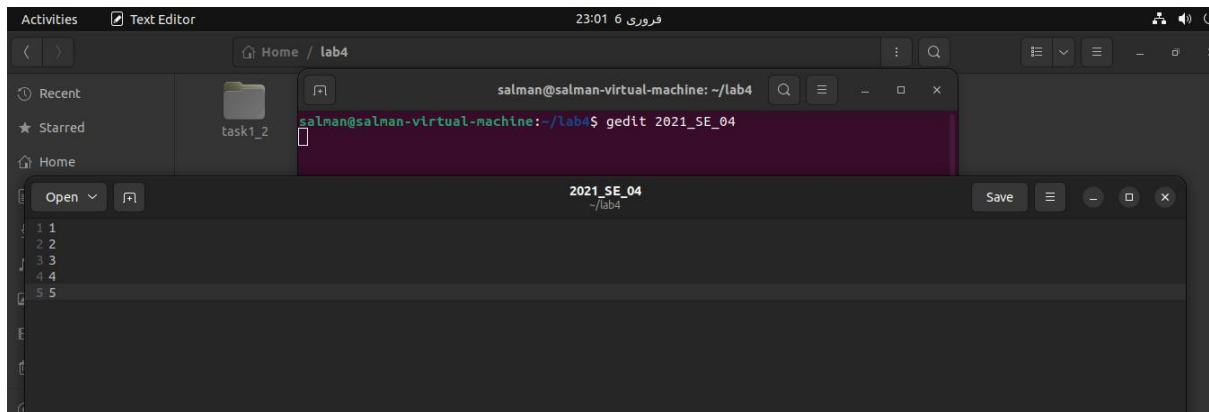
2. DEMO

```
salman@salman-virtual-machine:~/lab4$ g++ -o obj task2.cpp
salman@salman-virtual-machine:~/lab4$ ./obj 4 2.txt
4
14
salman@salman-virtual-machine:~/lab4$
```

TASK 3

1. Create a file name "2021-SE-04.txt"

1. Go to directory.
2. Right click and open **Terminal.**
3. Exceute "**gedit 2021_SE_04.txt**" .
4. Now enter the text you want to add in following file.
5. Press Ctrl+S and close the file.

2. Create a filename "salman.txt"

1. Open **Terminal** in same directory.
2. Execute "**gedit salman.txt**"
3. Now enter the text you want to add in following file
4. Press Ctrl+S and close the file.
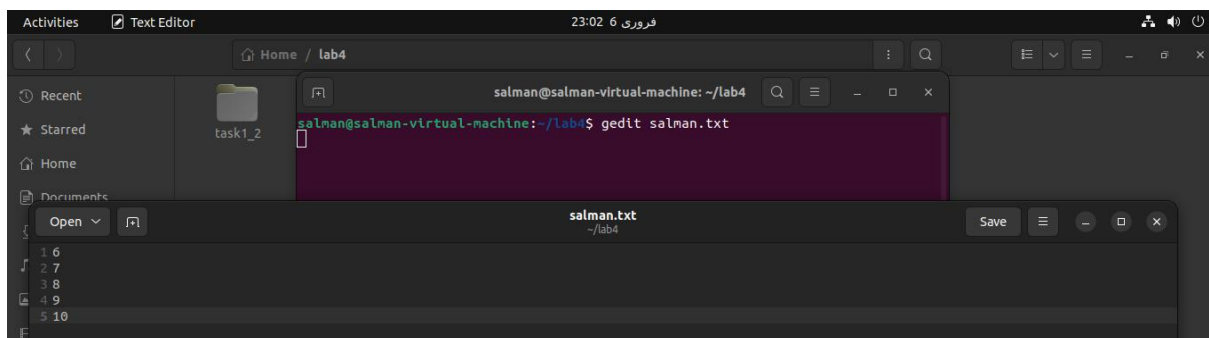
3. Merge Data of both files (2021-SE-04.txt , salman.txt)

1. Excetute "**cat 2021_SE_04 + salman.txt**".
2. Now both content will be show in terminal.

4. Redirect the output
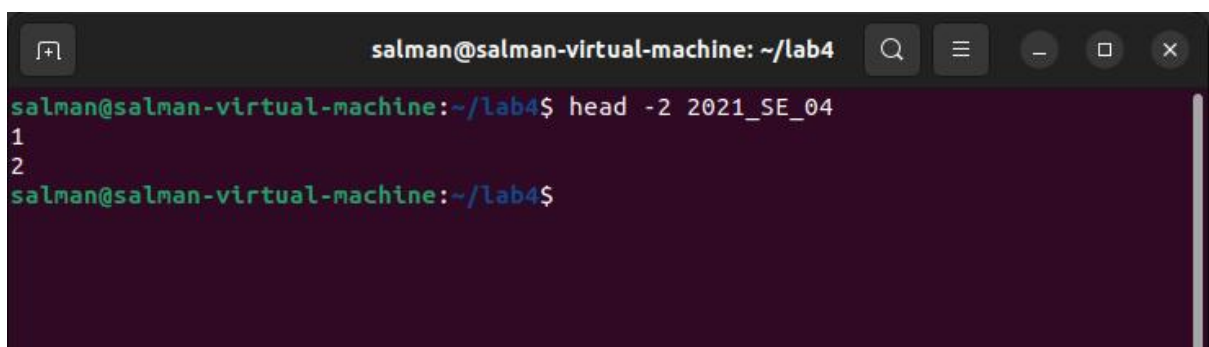
To Redirect we use "**>**"
1. Exceute **"cat 2021_SE_04 + salman.txt > merge.txt"**
2. A new merge.txt file will be create

5. First two lines
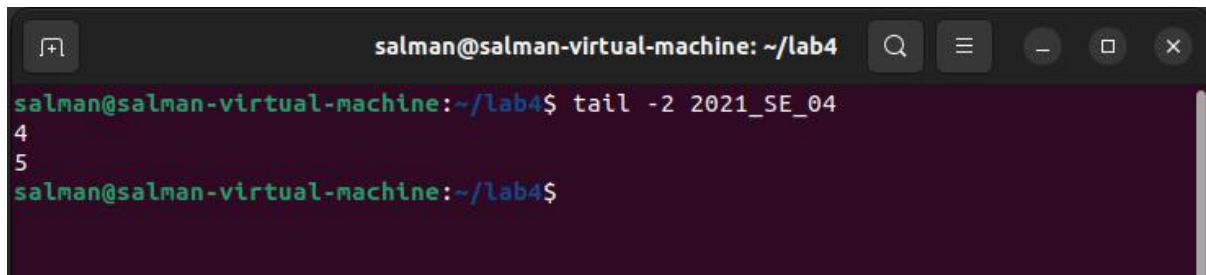
Exceute "**Head -2 salman.txt**," it will display first 2 lines of the file.
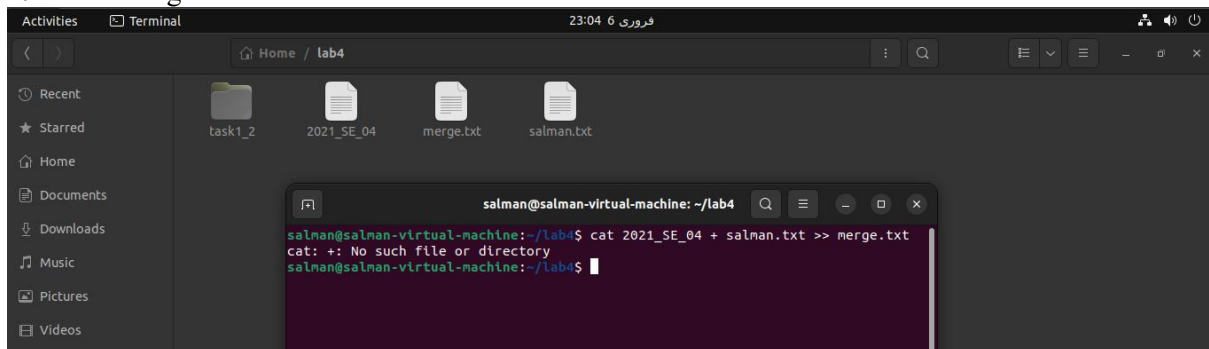
6. Last two lines

Execute "**Head -2 salman.txt",** it will display first 2 lines of the file.
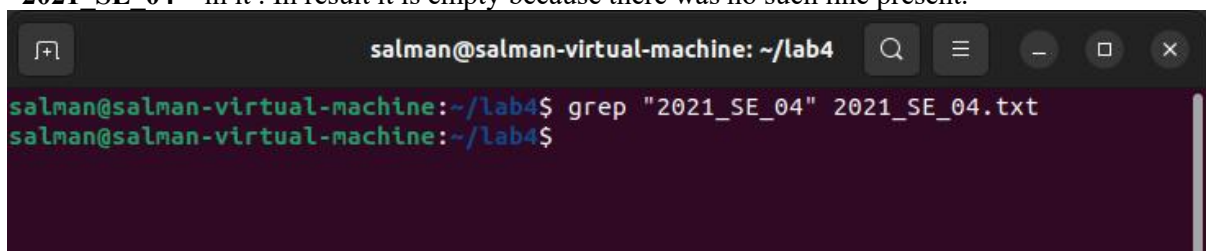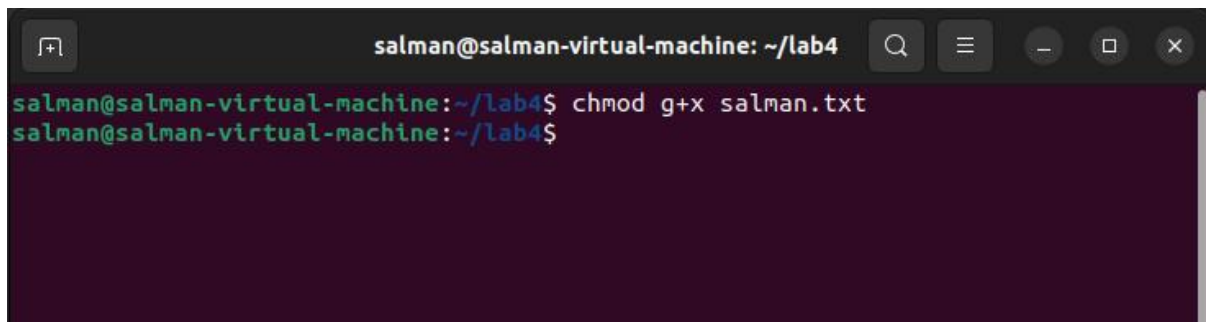

7. Finds the string

Execute "**grep "2021_SE_04" 2021_SE_04.txt"** it will start displaying all the line having "**2021_SE_04"** in it . In result it is empty because there was no such line present.

8. Execute permission
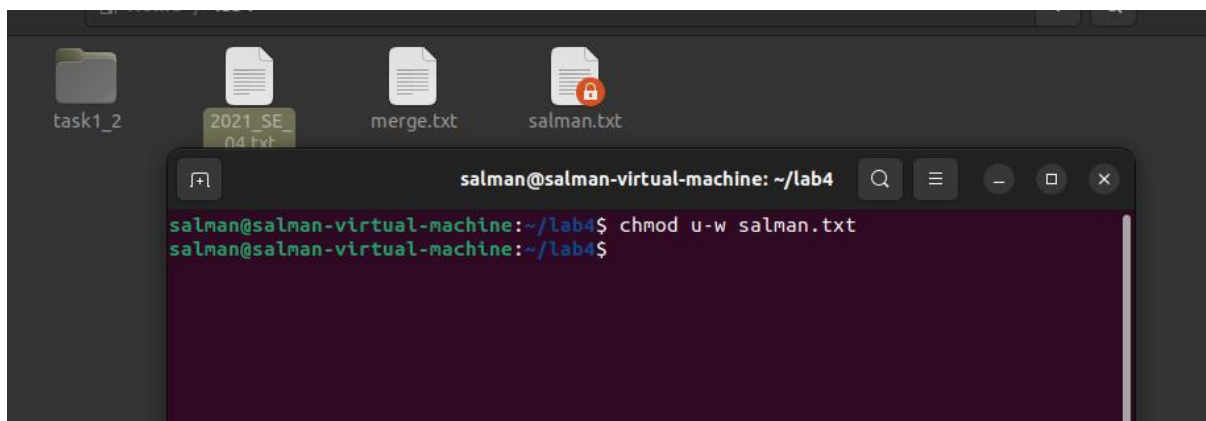
Execute **chmod g+x salman.txt** to grant the execute permission of the second file to the group **.**

9. Write permission

Execute "**chmod u-w salman.txt"** to remove the Write permission of the second file to the owner **.**

10. Current location

Exceute "**pwd**" command in terminal to get current location of present working directory.

11. List of all files present in the Desktop directory

Exceute follwing two commands in given sequence:
"cd Desktop"
"ls"

12. Create a folder

Excecute bellow line to make a folder in desktop
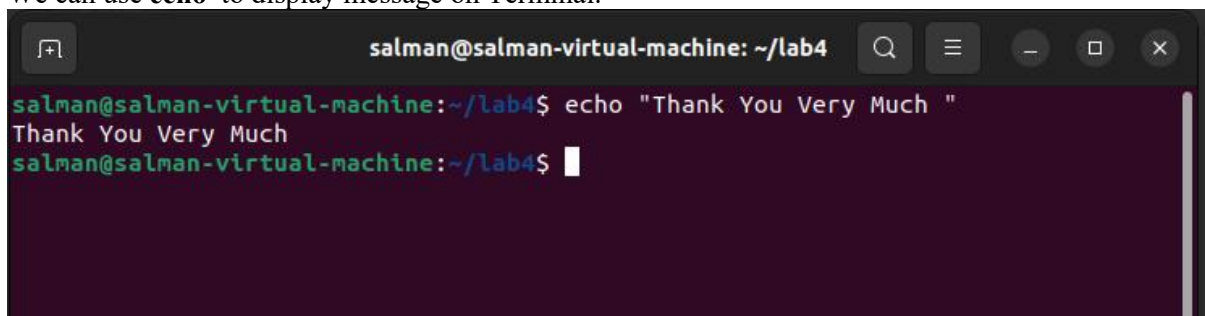**"mkdir 2021_SE_04"**

13. Display the Time.

Exceute following command to get current data time
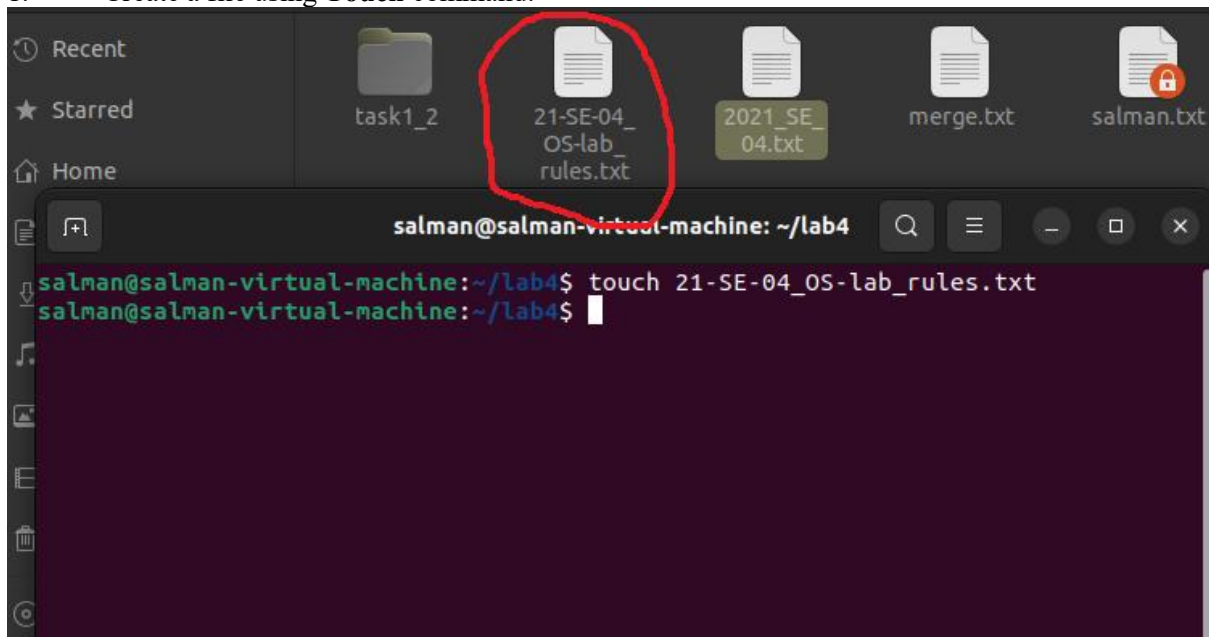**"date"**

14. Display a thank you message

We can use **echo** to display message on Terminal.

TASK 4

1.   Create a file using **Touch** command.

2.   Now to change file Permission to "**- rwx r-x r--**" we will use the follwing rules and create a chmod command.

          a)   For all Where r,w or x is present replace with 1 else 0.
          b)   Now convert 3 digits binary into decimal number
          c)   Here we get 7,5,4 that is our required Code

3.   Exceute "**chmod 754 salman.txt**" to change the permission.
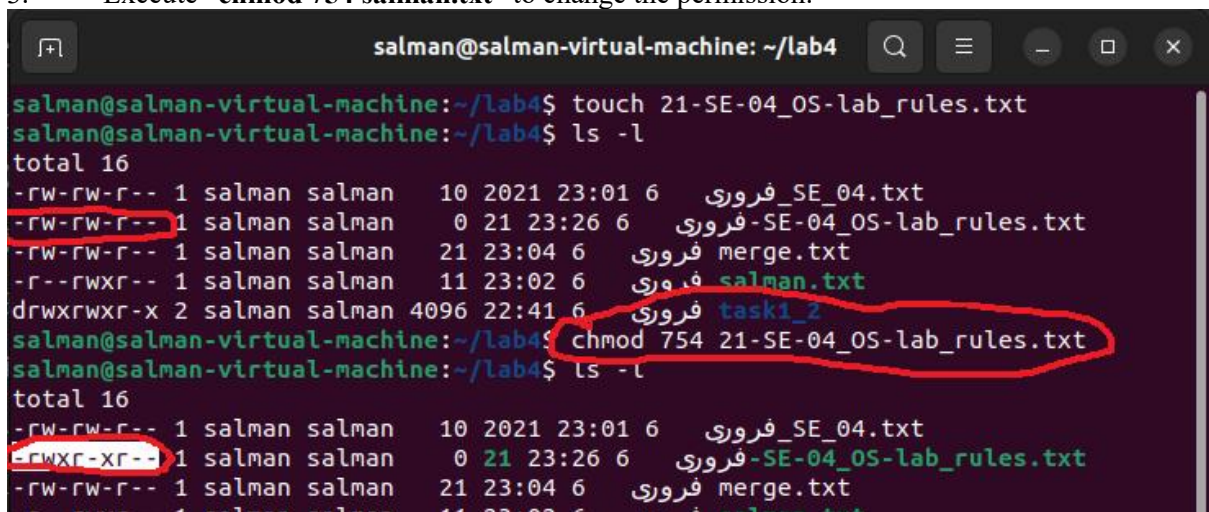
4.   To appened **ls** content in the file, exceute this command "**ls >> 21-SE-04_OS-lab_rules.txt**"