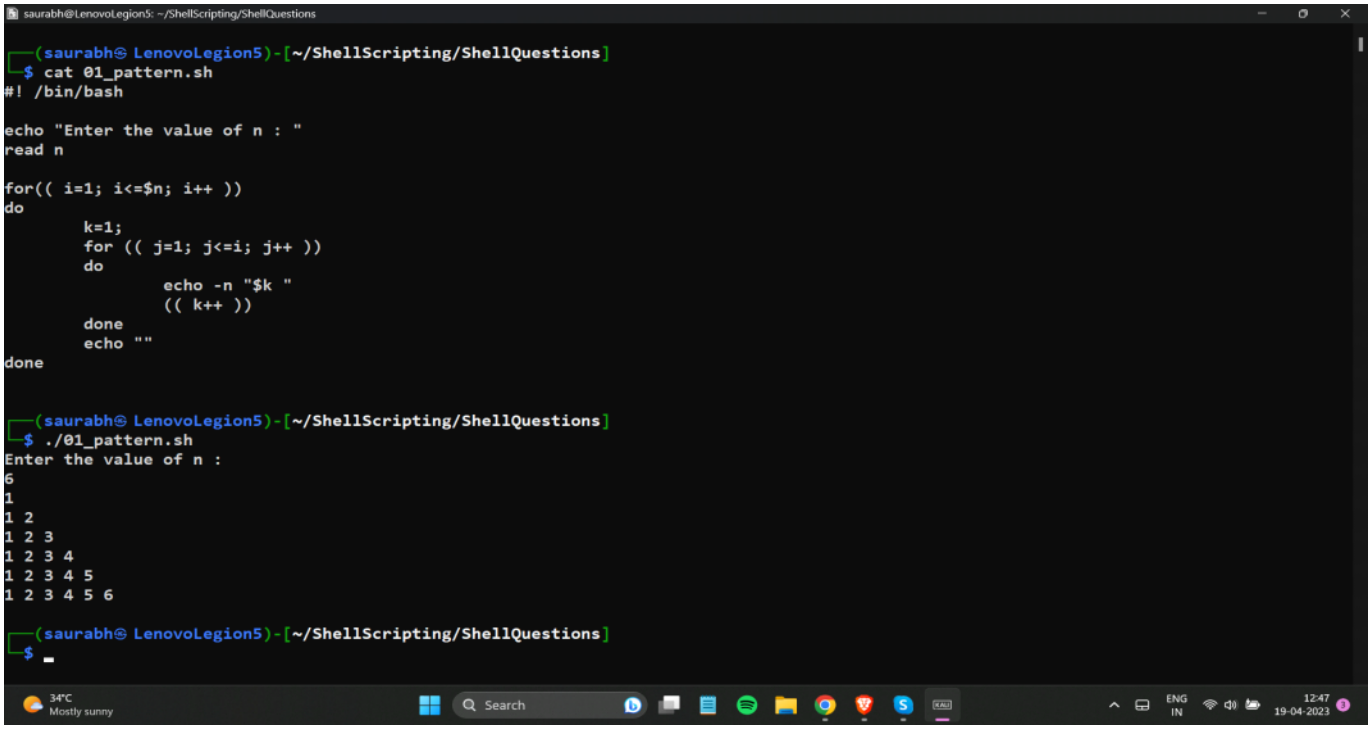
19 April 2023 12:47

Question 1 :

Description - To read n and generate a below pattern

```
1
1 2
1 2 3
1 2 3 4
```



Question 2 :

Description-To read n and generate a below pattern

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

```
        echo ""
done

┌──(saurabh㉿ LenovoLegion5)-[~/ShellScripting/ShellQuestions]
└─$ ./02_pattern.sh
Enter the value of n : 4
1
2 3
4 5 6
7 8 9 10

┌──(saurabh㉿ LenovoLegion5)-[~/ShellScripting/ShellQuestions]
└─$
```

Question3 :

Description-Script for addition of two real numbers

Input- bash 03_real_add.sh

Enter the numbers to addition: 4.28 1.21

Output- The sum of 4.28 and 1.21 is 5.49

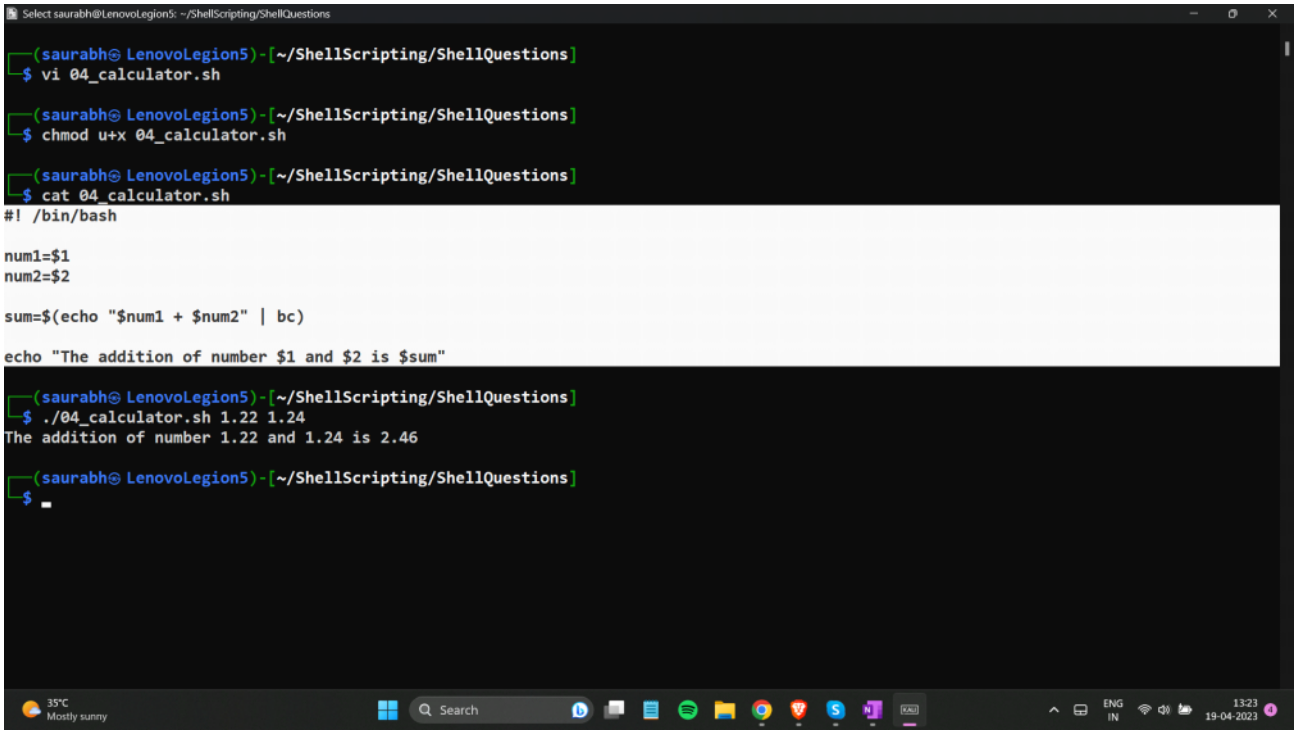
```
Select saurabh@LenovoLegion5: ~/ShellScripting/ShellQuestions

┌──(saurabh㉿ LenovoLegion5)-[~/ShellScripting/ShellQuestions]
└─$ vi 03_real_add.sh

┌──(saurabh㉿ LenovoLegion5)-[~/ShellScripting/ShellQuestions]
└─$ chmod u+x 03_real_add.sh

┌──(saurabh㉿ LenovoLegion5)-[~/ShellScripting/ShellQuestions]
└─$ cat 03_real_add.sh
#! /bin/bash

read -p "Enter the numbers to addition : " num1 num2

sum=$(echo "$num1 + $num2" | bc )

echo "The addition number $1 and $2 is $sum"

┌──(saurabh㉿ LenovoLegion5)-[~/ShellScripting/ShellQuestions]
└─$ ./03_real_add.sh
Enter the numbers to addition : 1.22 1.23
The addition number  and  is 2.45

┌──(saurabh㉿ LenovoLegion5)-[~/ShellScripting/ShellQuestions]
└─$
```

Question4:

Description- Script for arithmetic calculator using command line arguments

Input- bash 04_calculator.sh 1.2 + 2.6

Output- The sum of 1.2 and 2.6 is 3.8

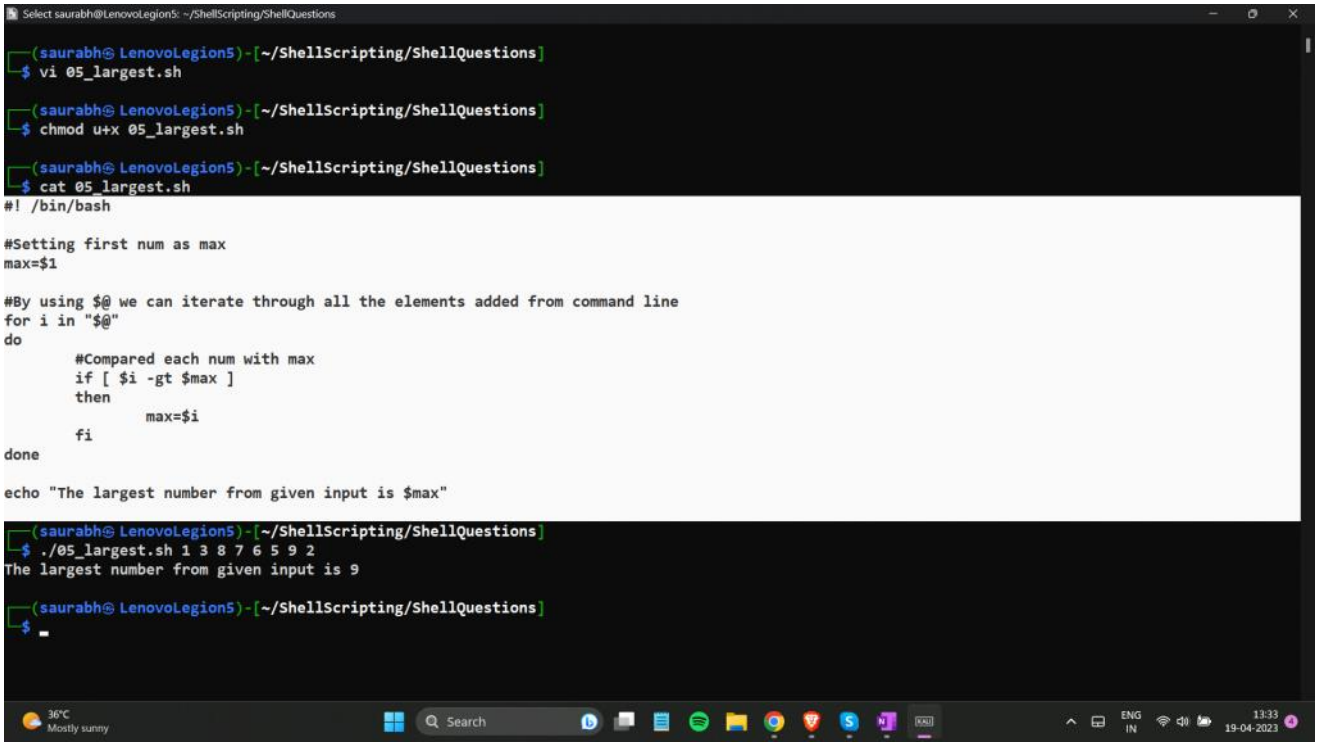


Question5:

Description- Script to compare larger integer values from a 'n' number of arguments using command line arguments

Input- bash 05_largest.sh 1 3 8 6 5 7 9 2

Output- The largest value is 9

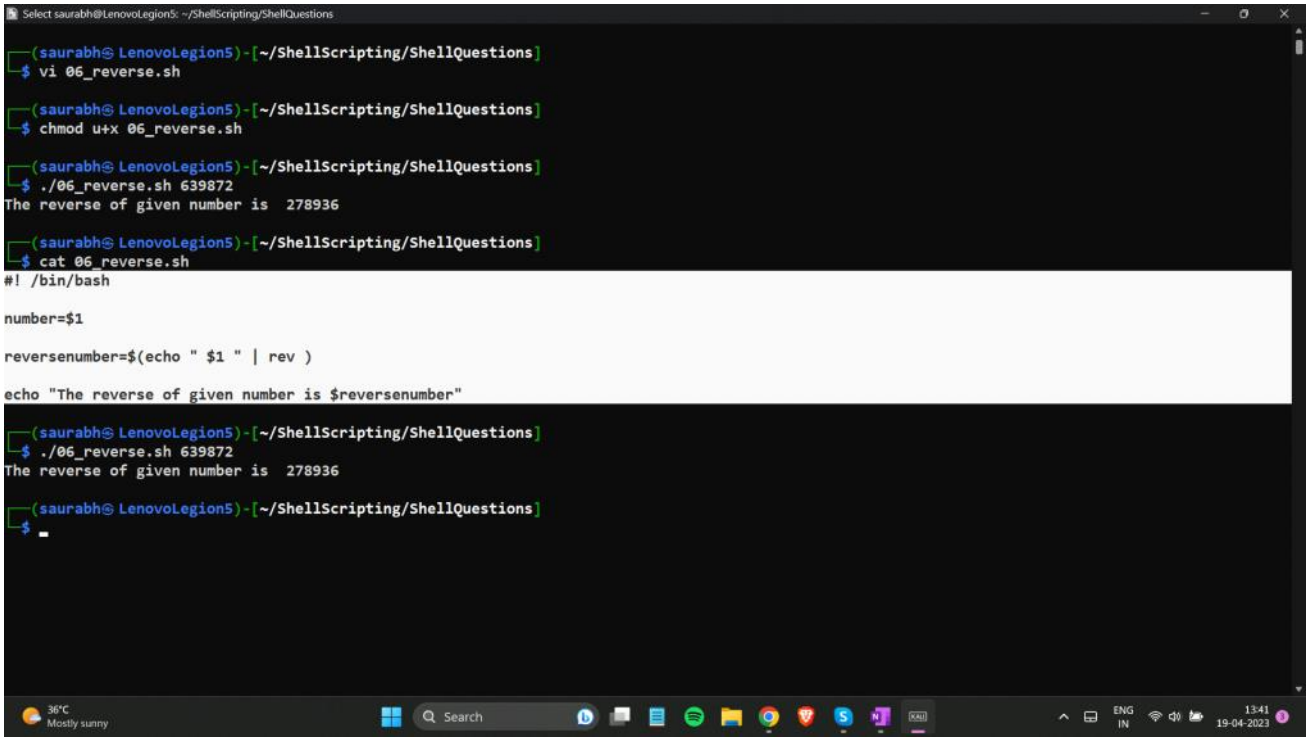


Question6:

Description- Script to print a given number in reverse order.

Input- bash 06_reverse.sh 639872

Output- The reversed number of entered number is 278936



Question7:

Description- Script to delete empty lines from a file

Input- bash 07_delete_empty_lines.sh file.txt

Output- All empty lines of the file file.txt will be deleted

Before script running, content of the file file.txt :

Hello, I am Siddaling.

I am from Belgaum.

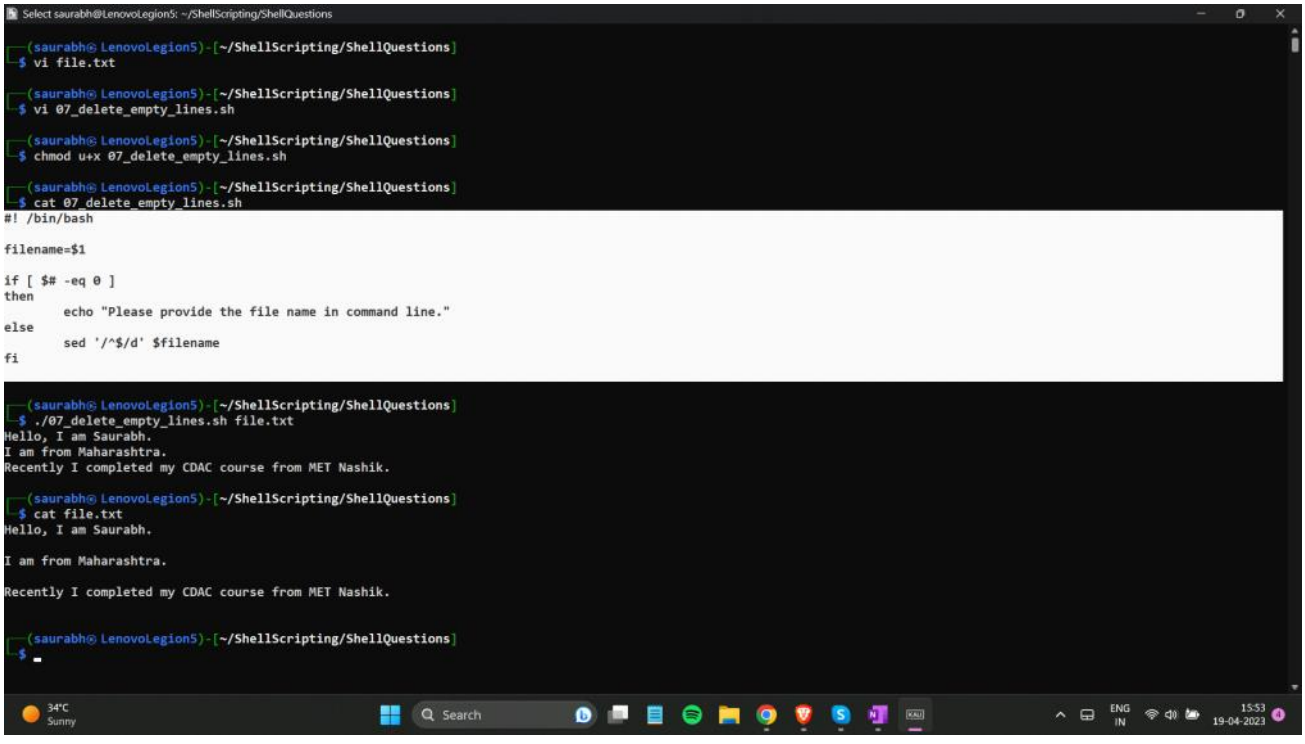
I studied B-Tech in ECE.

After script running, content of the file file.txt :

Hello, I am Siddaling.

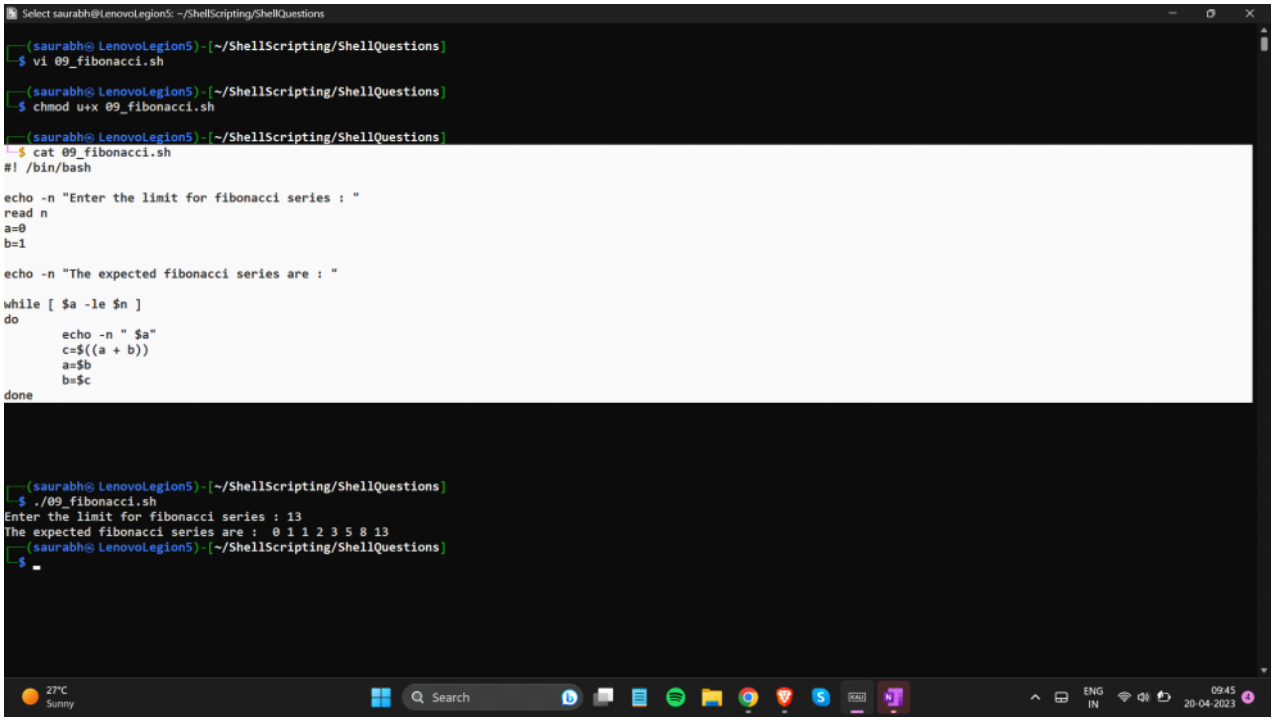
I am from Belgaum.

I studied B-Tech in ECE.

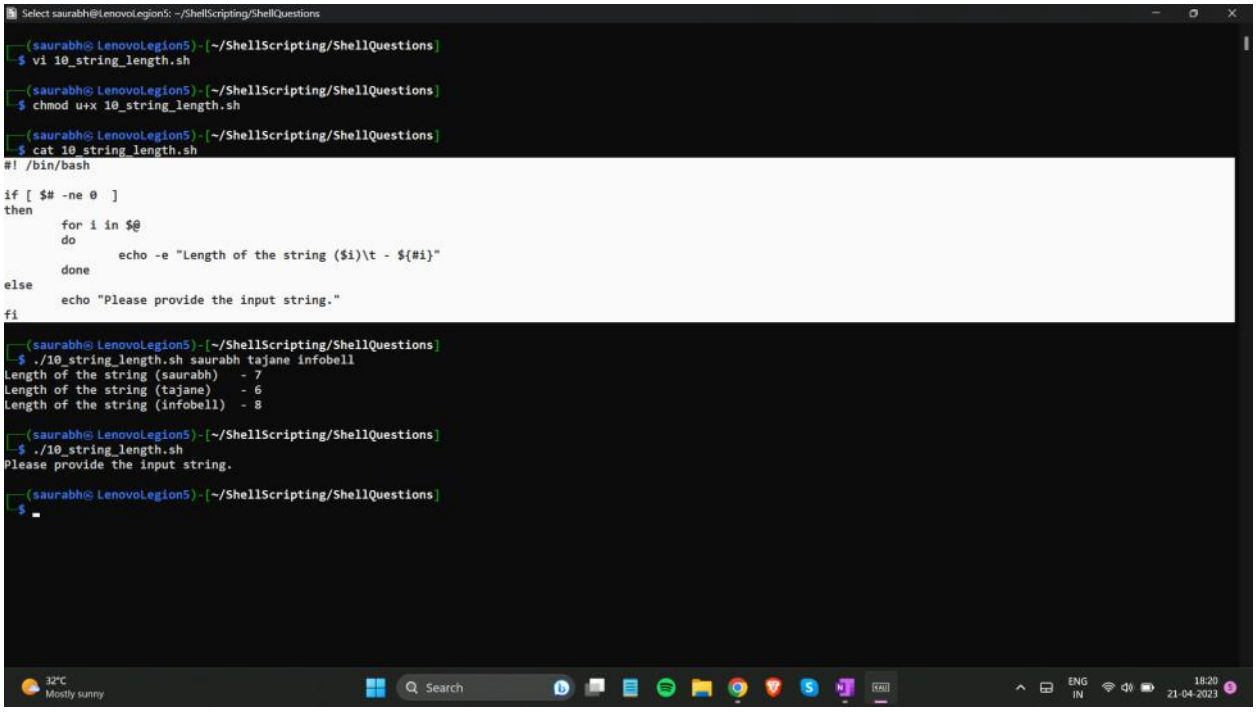


Question9:

Description- script to read 'n' and generate Fibonacci numbers <= n
Input- bash 09_fibonacci.sh
Enter limit for fibonacci series: 13
Output- The expected fibonacci series is:
0, 1, 1, 2, 3, 5, 8, 13,



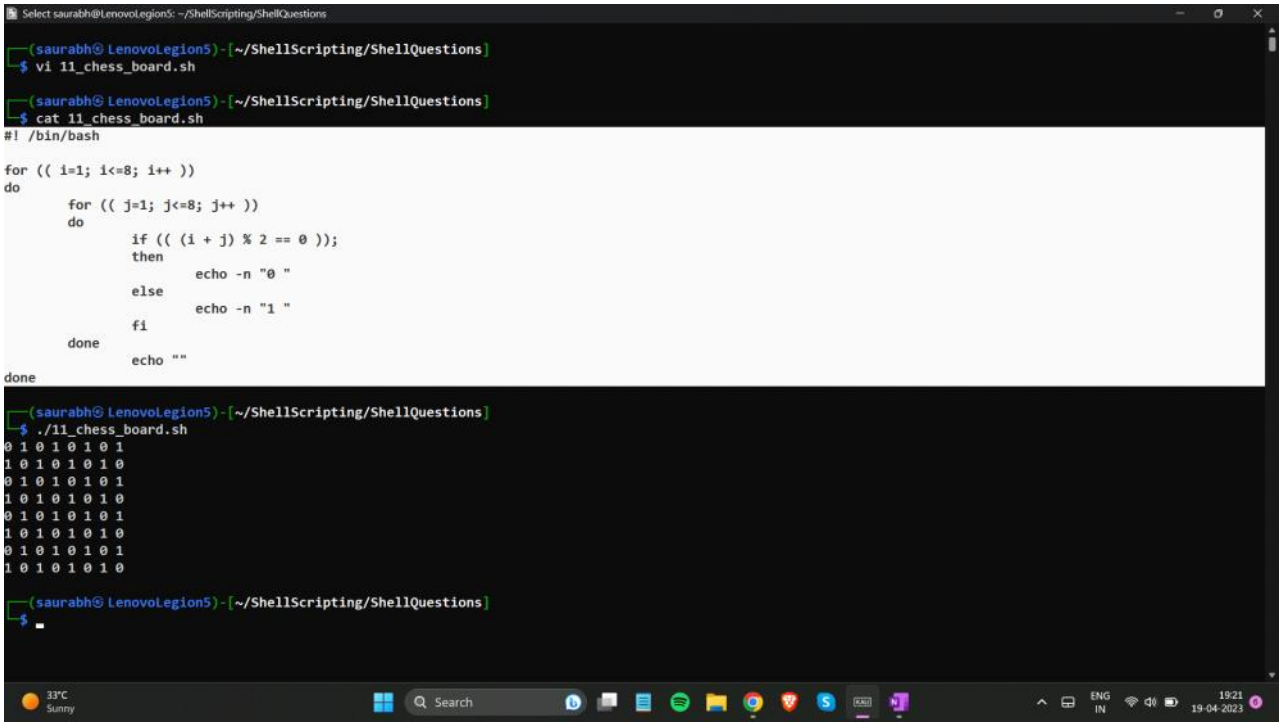
Question10:
Description- Script to print the length of each and every string using arrays
Input- bash 10_string_length.sh hello, I am Siddaling
Output- The lengths of each string are as below:
length of the string(hello,) -6
length of the string(I) -1
length of the string(am) -2
length of the string(Siddaling) -9



Question11:

script to print chess board , black as 1 , white as 0

Input- bash 11_chess_board.sh

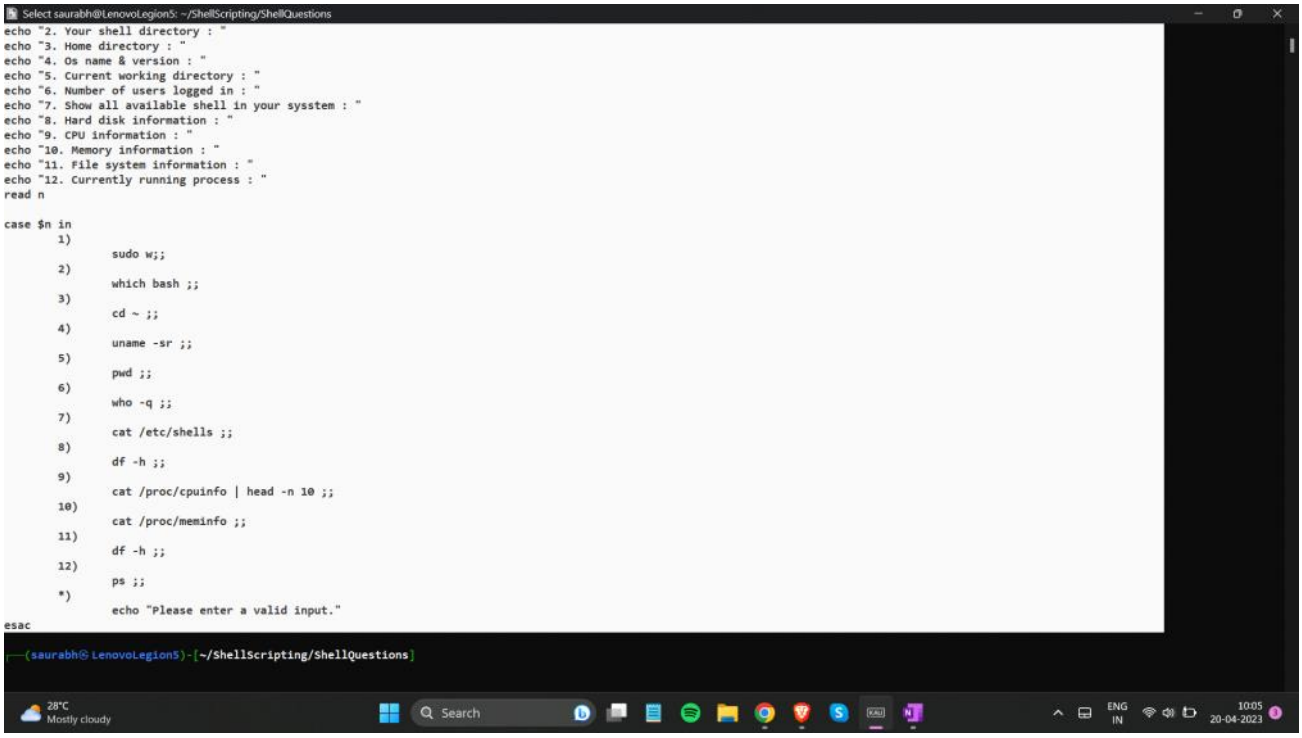


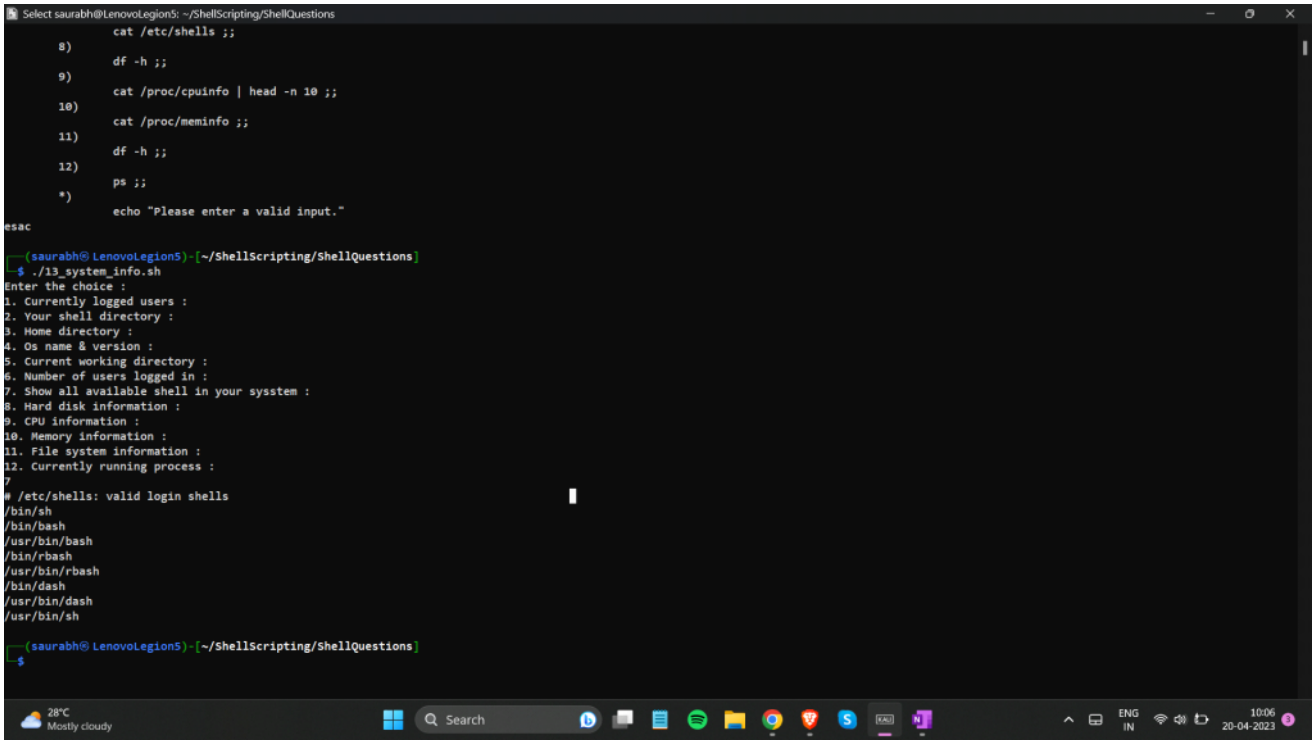
Question13:

Description- Script to print the following:

- Currently logged users
- Your shell directory

- Home directory
- OS name & version
- Current working directory
- Number of users logged in
- Show all available shells in your system
- Hard disk information
- CPU information.
- Memory information.
- File system information.
- Currently running process





Question15

Description- Script to rename current working directory with given name.

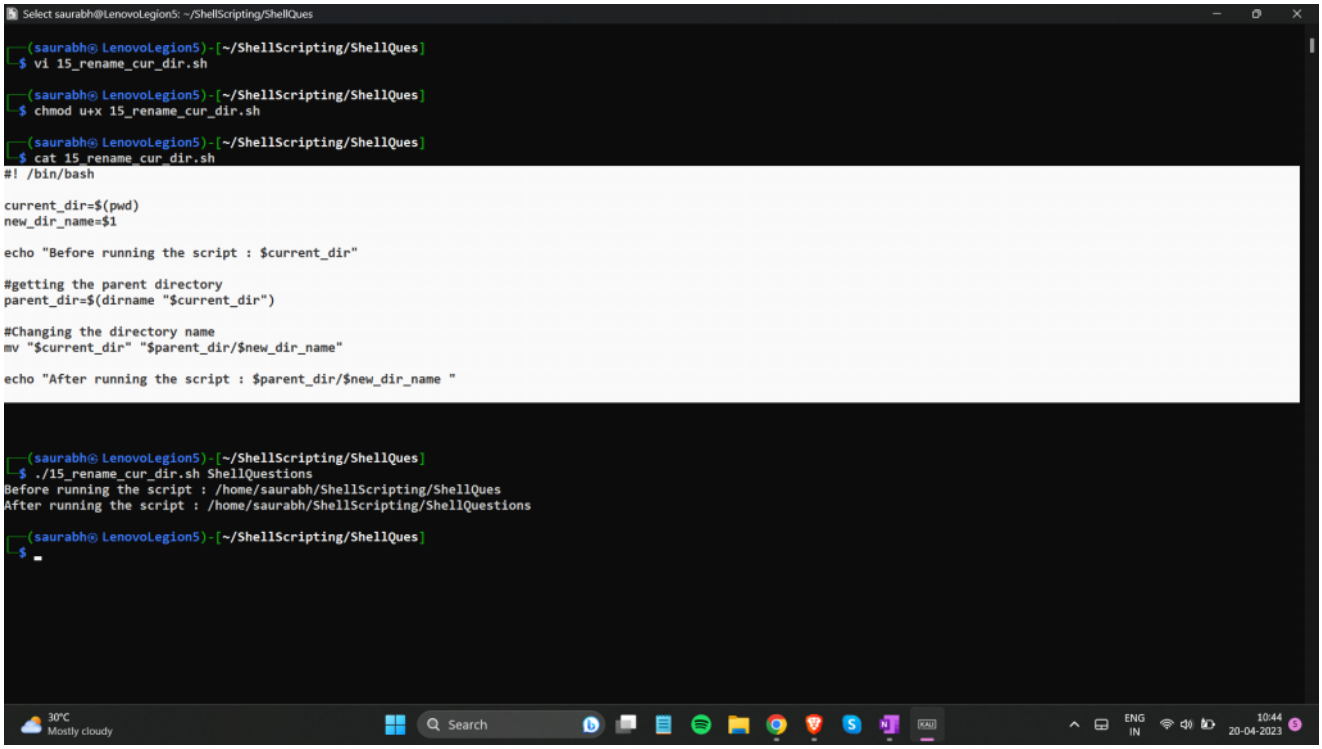
Input- bash 15_rename_cur_dir.sh siddaling

Output- Before running the script:

Name of current directory- siddaling1

After running the script:

Name of current directory- siddaling



Question16:

Description- Script to rename all .jpg files by replacing prefix which is given by user

Input- bash 16_rename_album.sh myday

Output- Before running the script

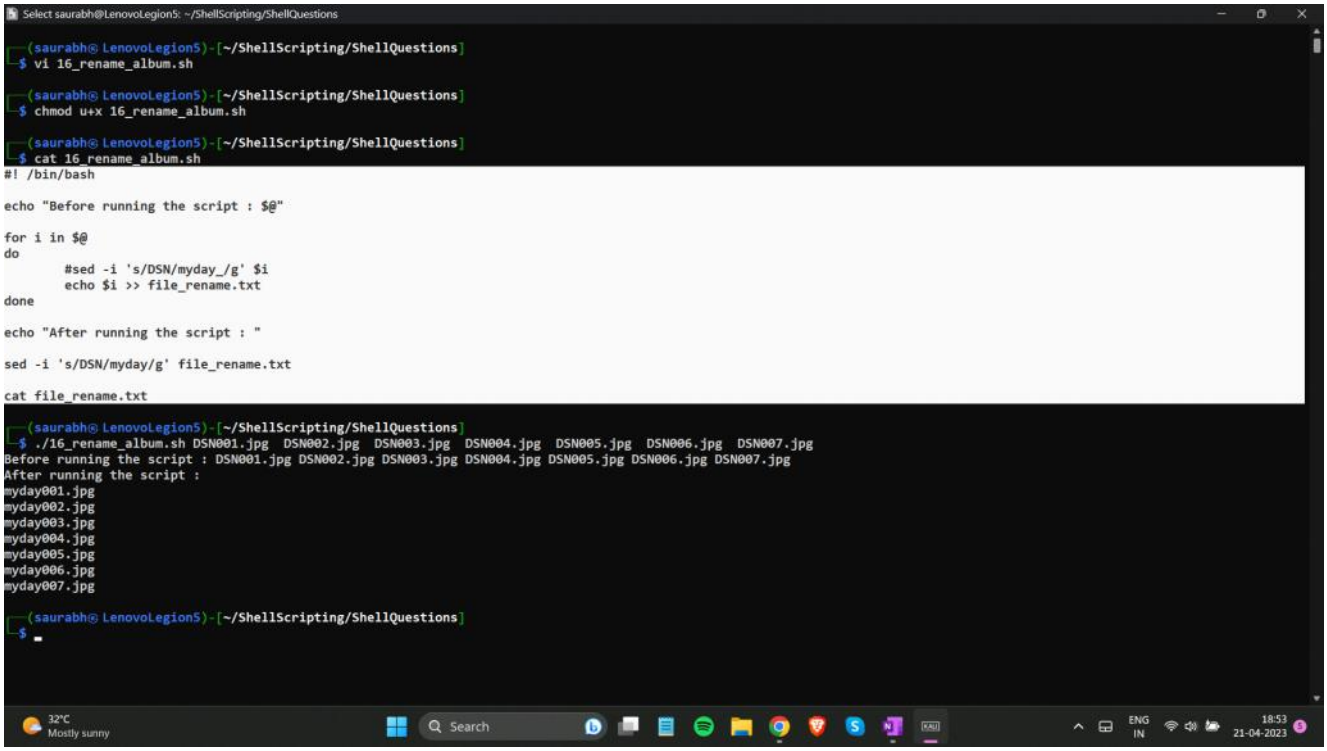
ls

16_rename_album.sh DSN001.jpg DSN002.jpg DSN003.jpg DSN004.jpg DSN005.jpg DSN006.jpg DSN007.jpg

After running the script

$ ls

16_rename_album.sh myday_001.jpg myday_002.jpg myday_003.jpg myday_004.jpg myday_005.jpg myday_006.jpg myday_007.jpg



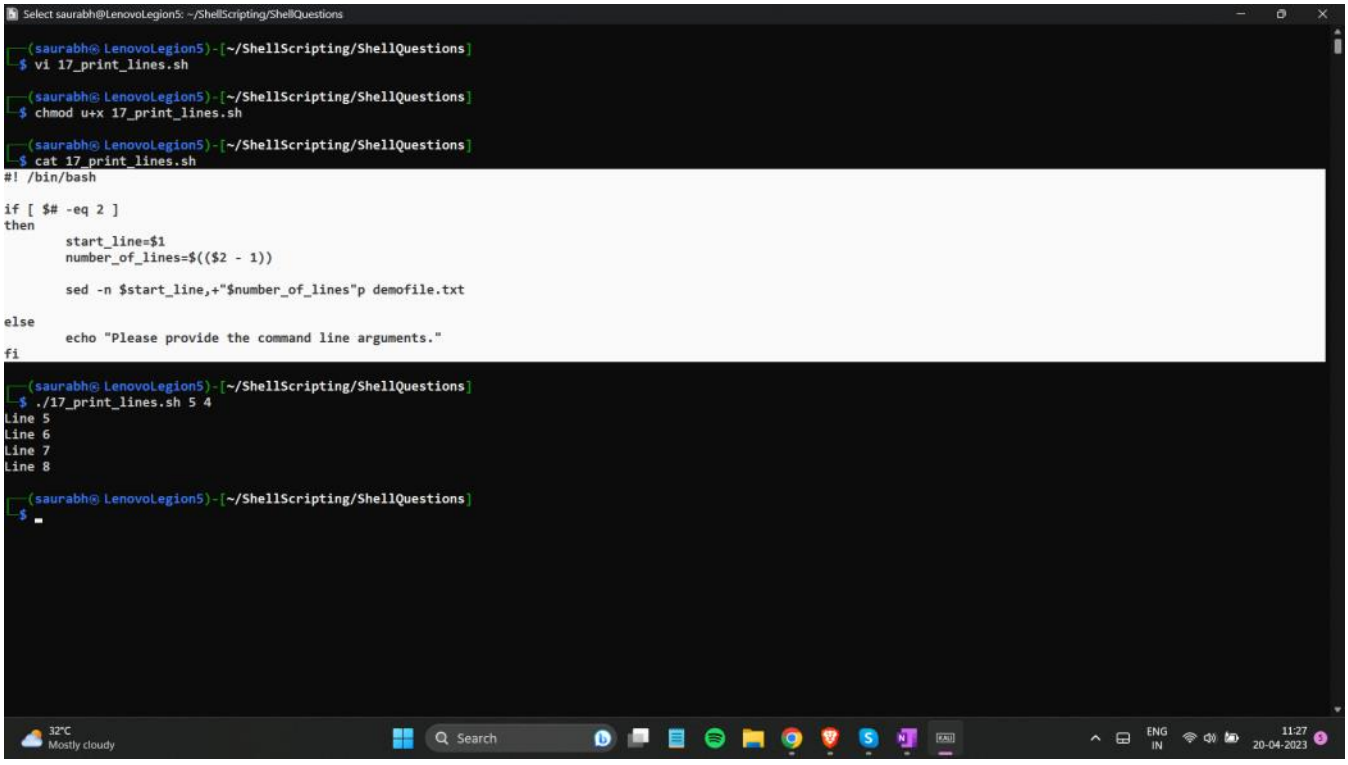
Question17:

Description- Script to print contents of file from given line number to next given number of lines.

Input- bash 17_print_lines.sh 5 4

Output-

line 5
line 6
line 7
line 8



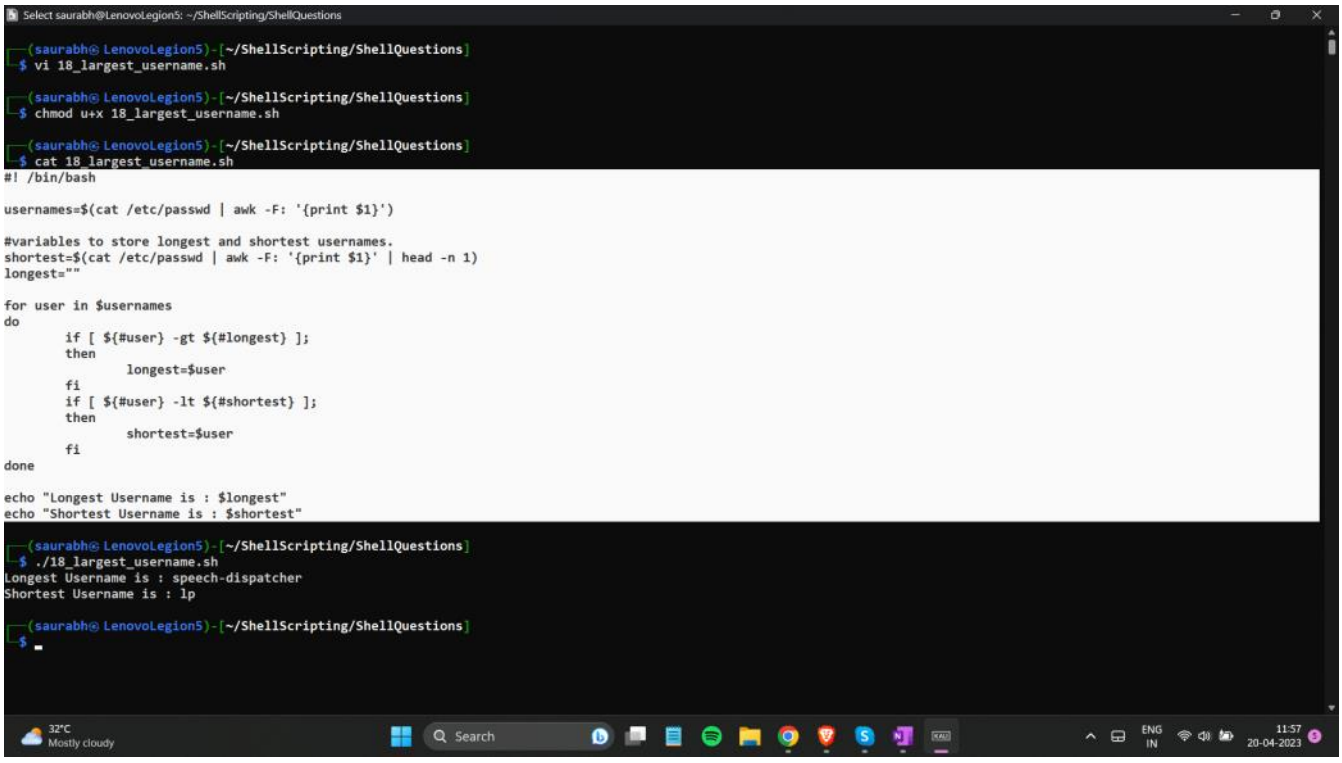
Question18:

Description- Script to display the longest and shortest user-names on the system.

Input- bash 18_largest_username.sh

Output- The user with longest name is gnome-initial-setup

The user with shortest name is lp

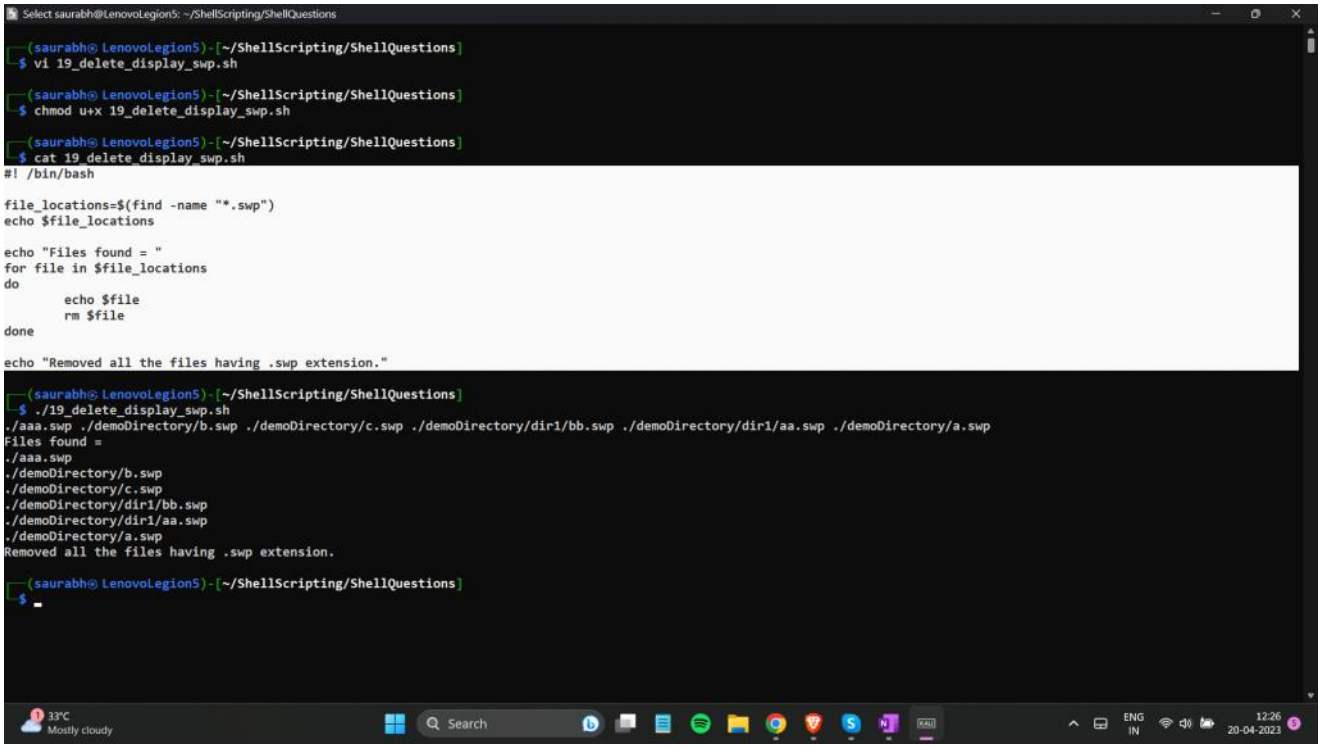


Question19:

Description- Script to delete all the .swp files found in your system or directory.

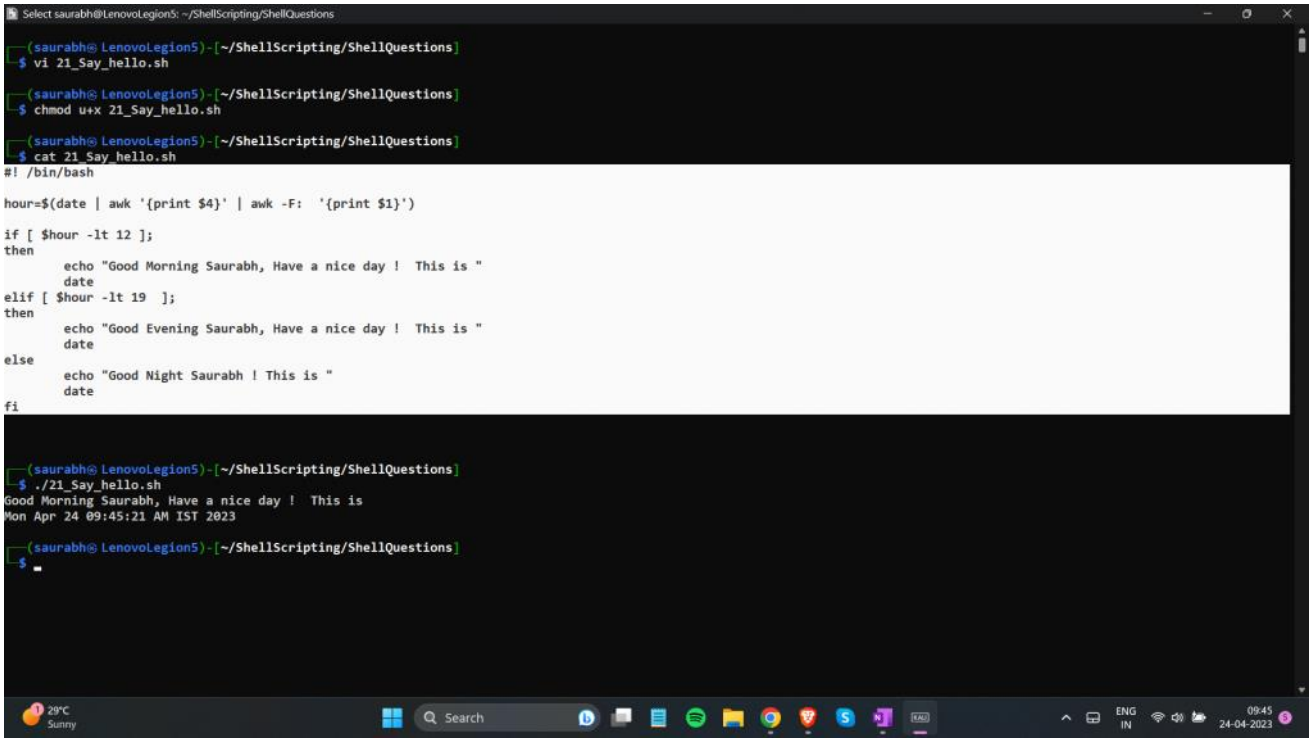
Input- bash 19_delete_display_swp.sh

Output- swp files found:
./b.swp
./siddaling/b.swp
./siddaling/c.swp
./siddaling/test/b.swp
./siddaling/test/c.swp
./siddaling/test/d.swp
./siddaling/test/a.swp
./siddaling/test/e.swp
./siddaling/d.swp
./siddaling/a.swp
./a.swp



Question20:
Description- script for generating random 8-character passwords including alpha numeric characters.
Input- bash 20_random_password.sh
Output- The generated 8 random passwords are:
J,kwAc{O
Pft4Get*
\2('pKlr
!,[(VwY%
^X|Z+}u8
y]\(2P|R
B#6'V=#D
8\Lrz{bc

Question21:
Script called say_hello, which will print greetings based on time and to provide date information .



Question22:

Question23:

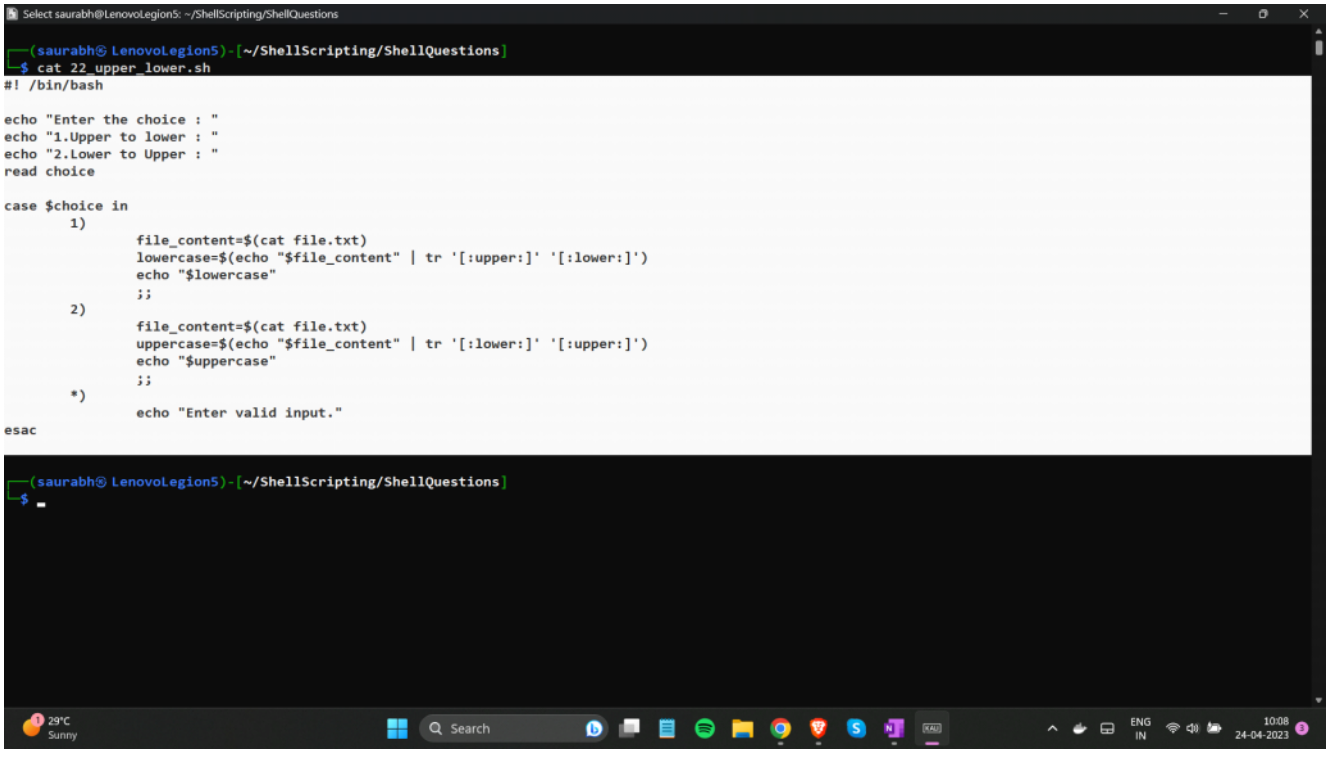
Description- Script to convert content of file lower to uppercase and upper to lowercase.

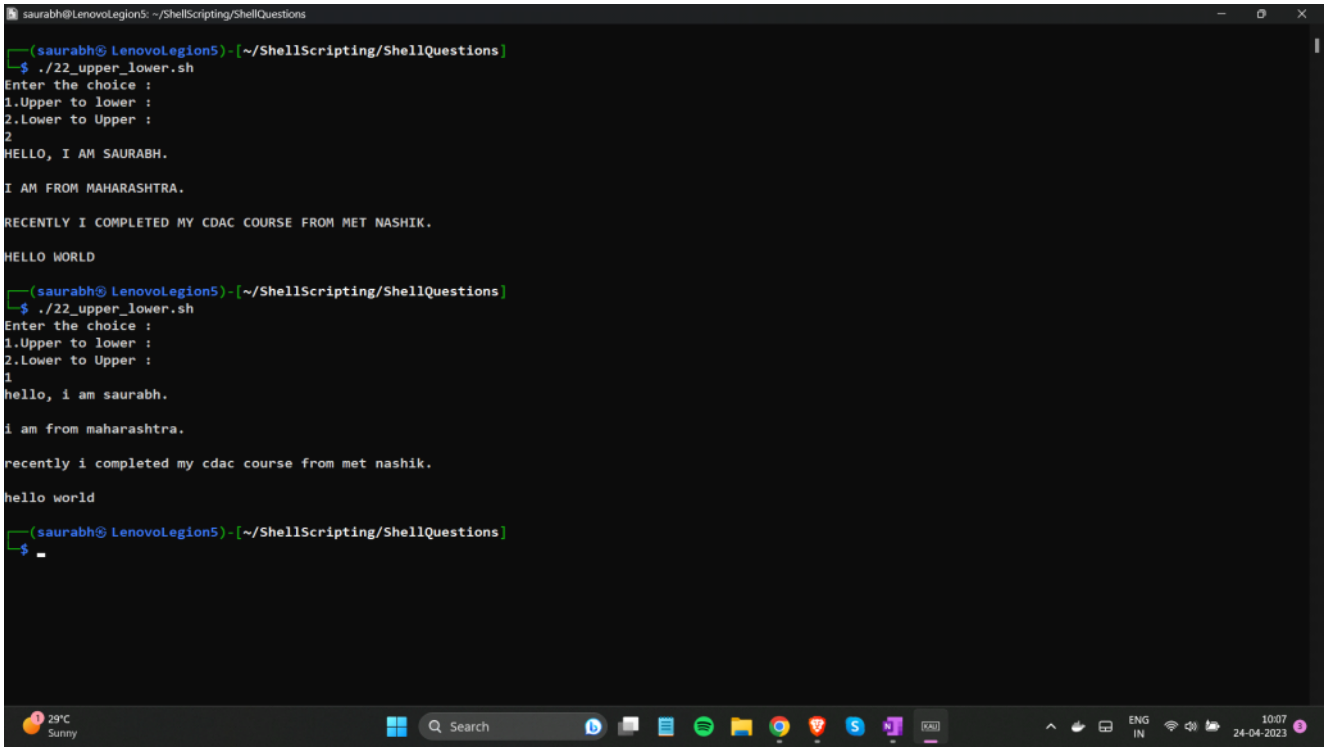
Input- bash 22_upper_lower.sh a.txt

1 – Lower to upper

2 – Upper to lower

please select the option: 1

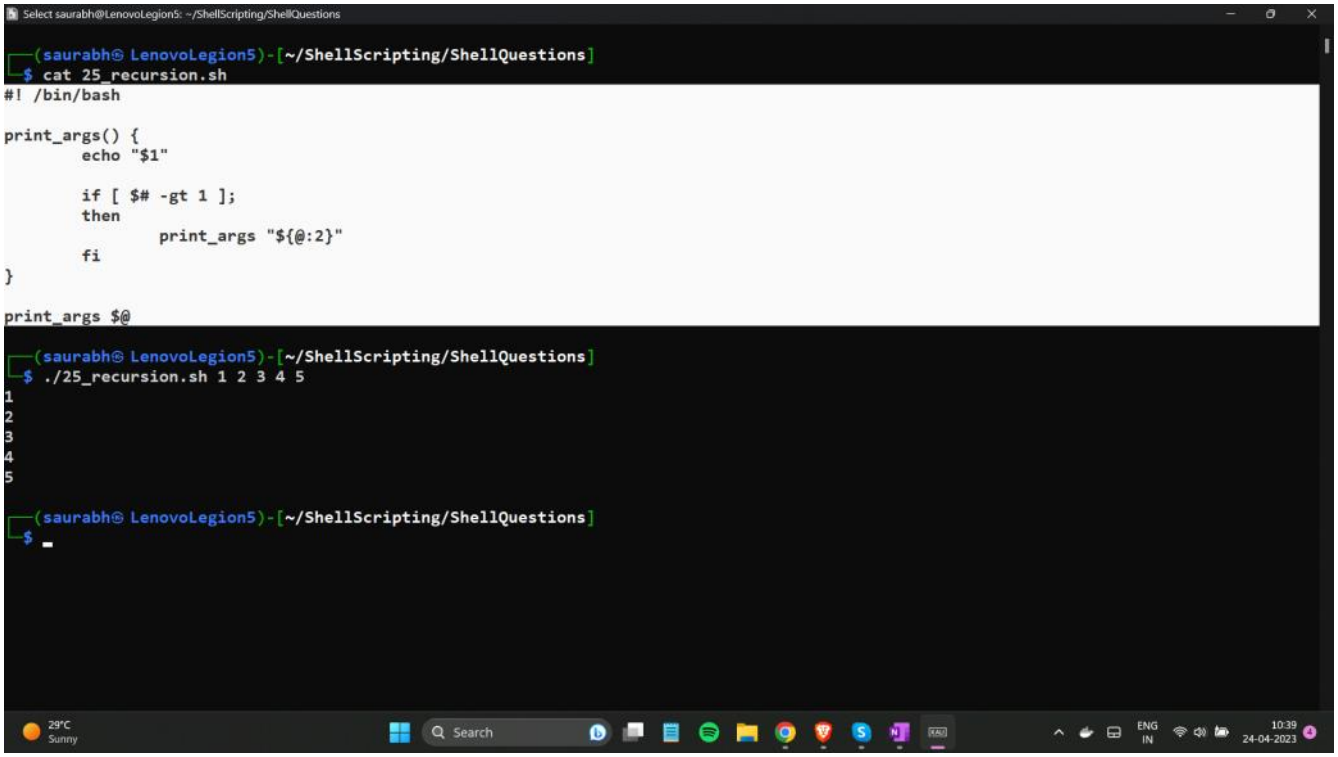




Question24:

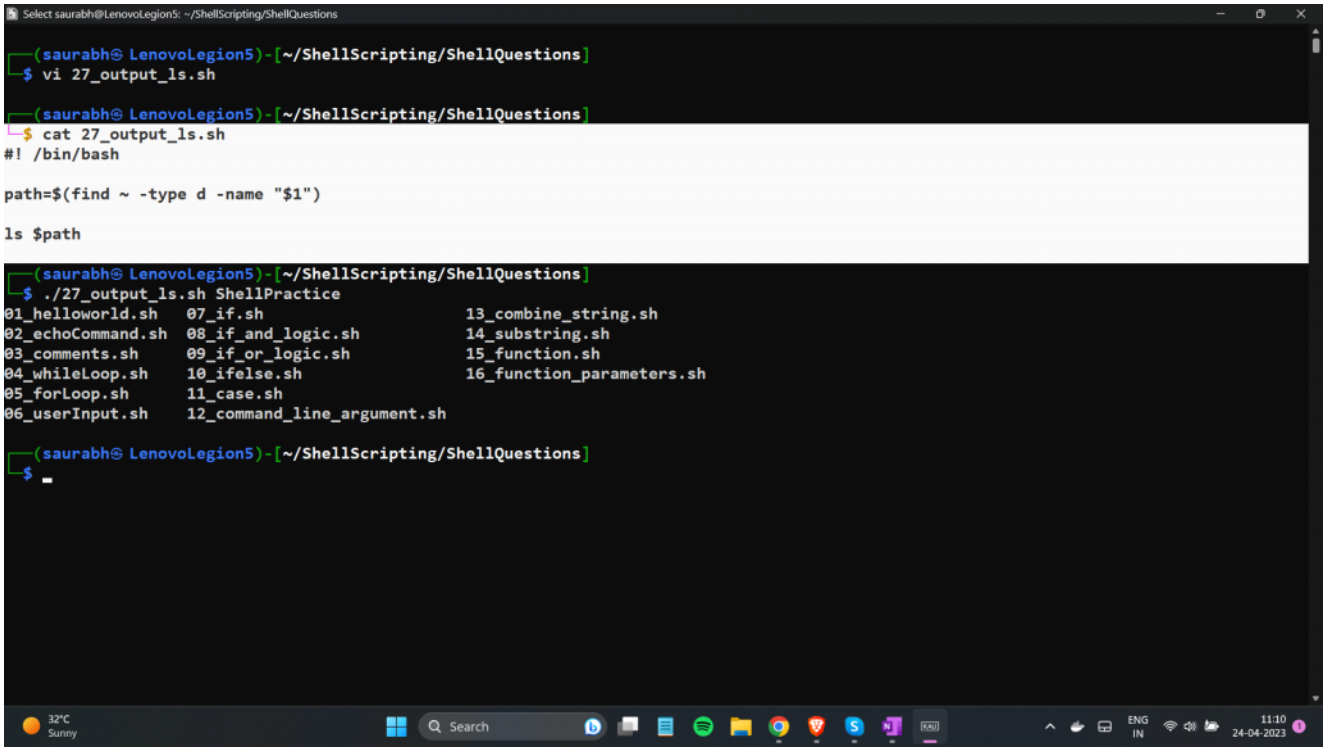
Question25:

Description-Script to use a recursive function to print each argument passed to the function.



Question27:

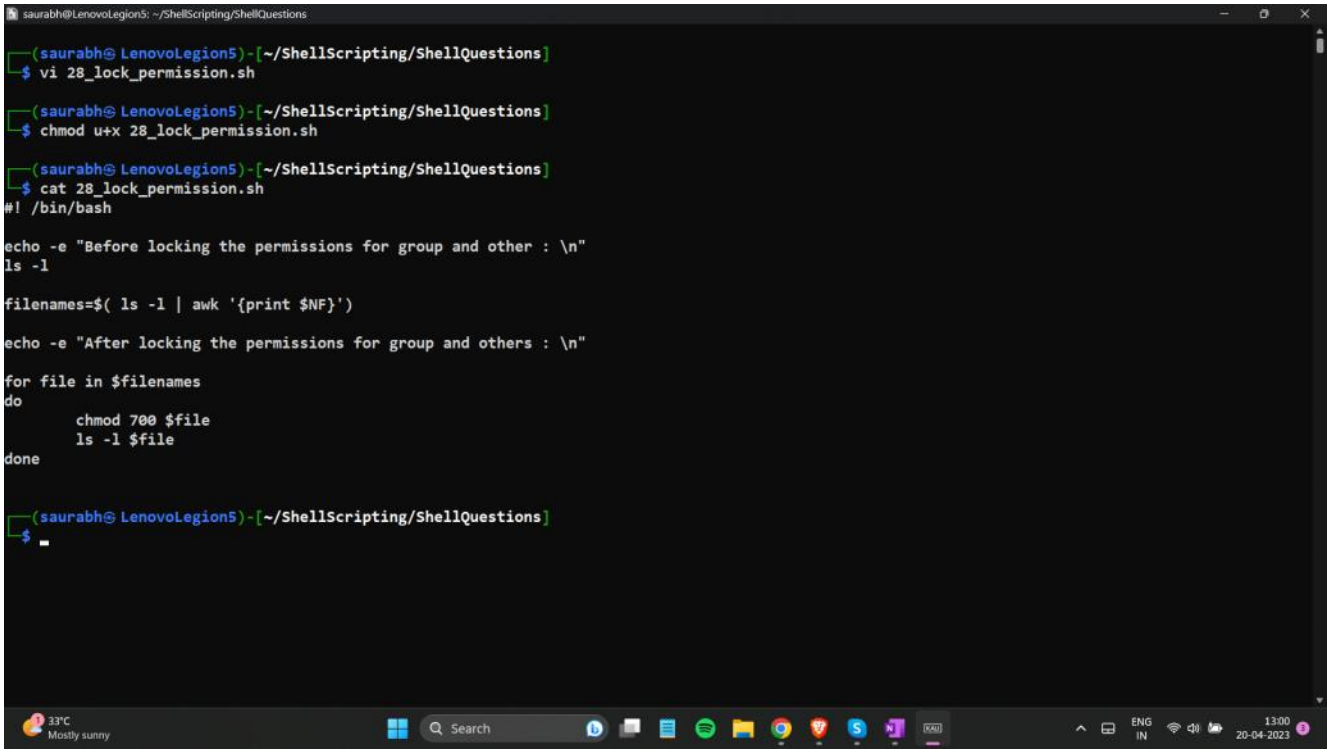
Description- Script that takes any number of directories as command-line arguments and then lists the contents of each of the directories.

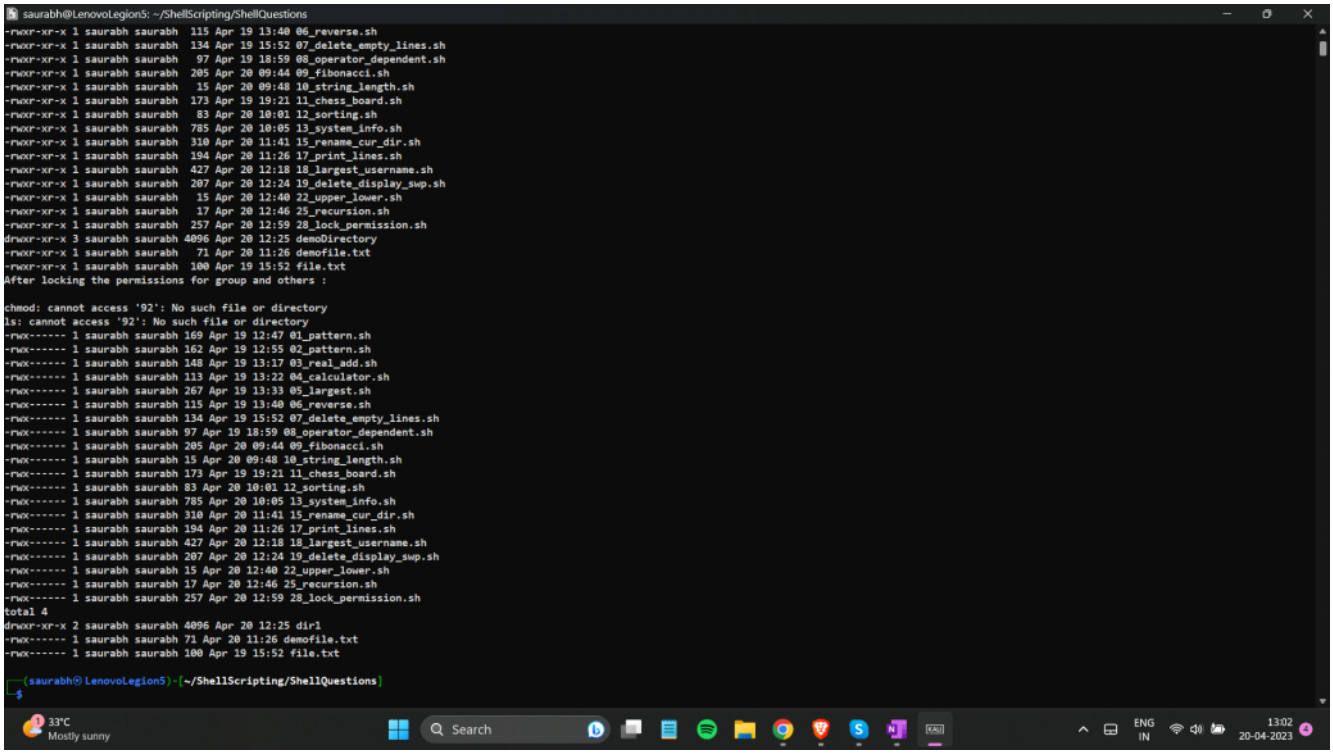


Quesion28:

Description- Script to locks file permissions for a particular directory for groups and others

Input- bash 28_lock_permissions.sh test

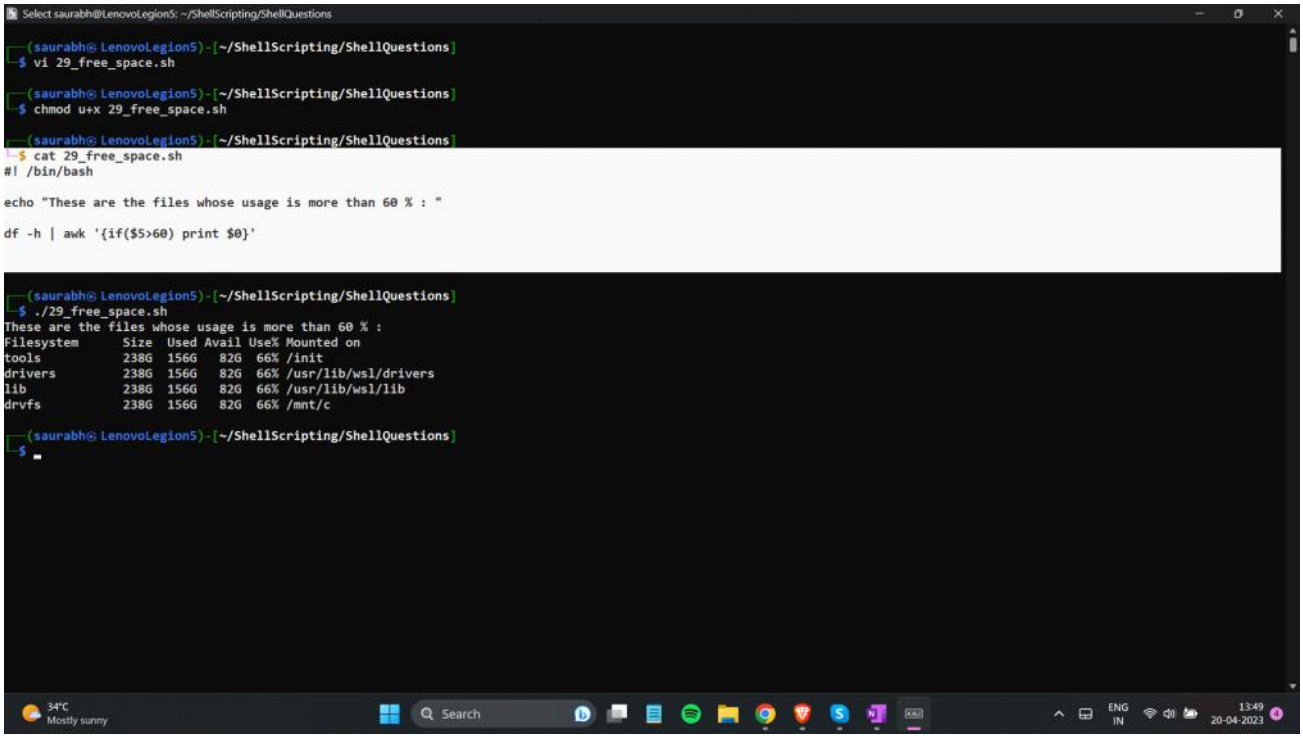




Question29:

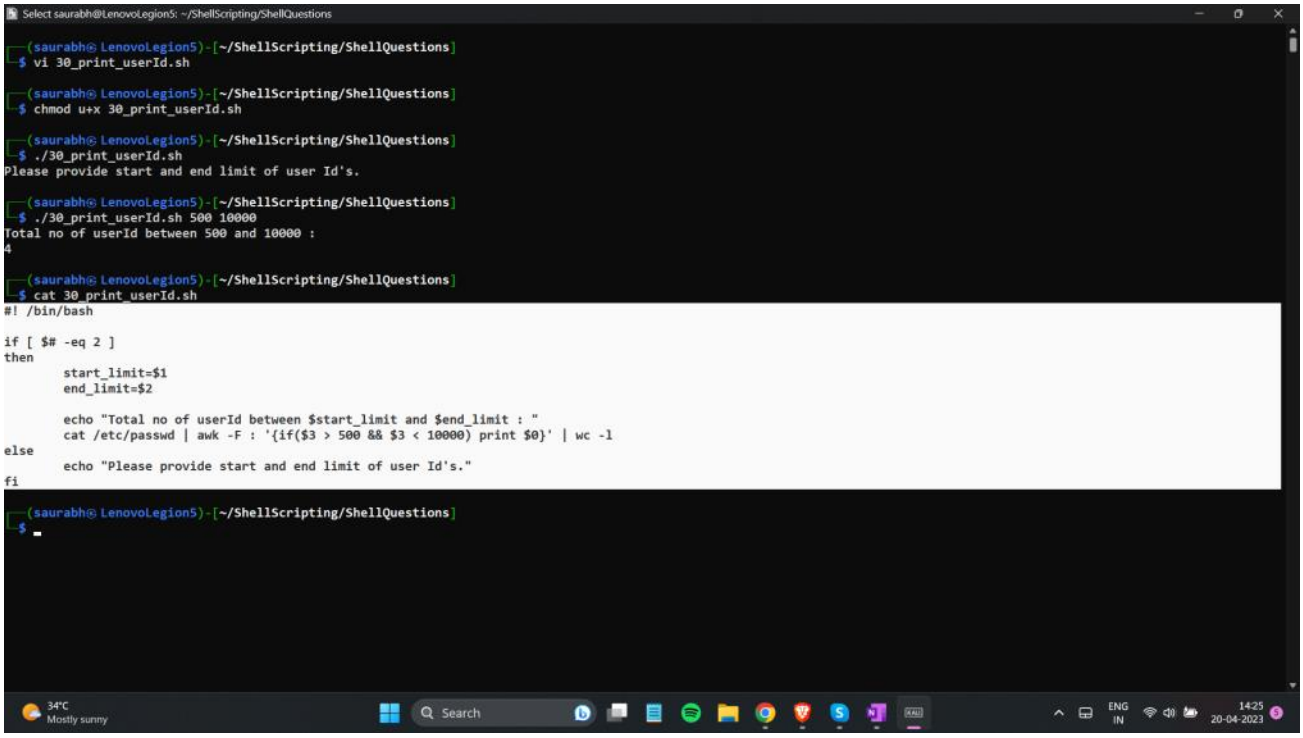
Description- Script to display the names of any file-system which have less than 10% free space available

Input- bash 29_free_space.sh



Question30:

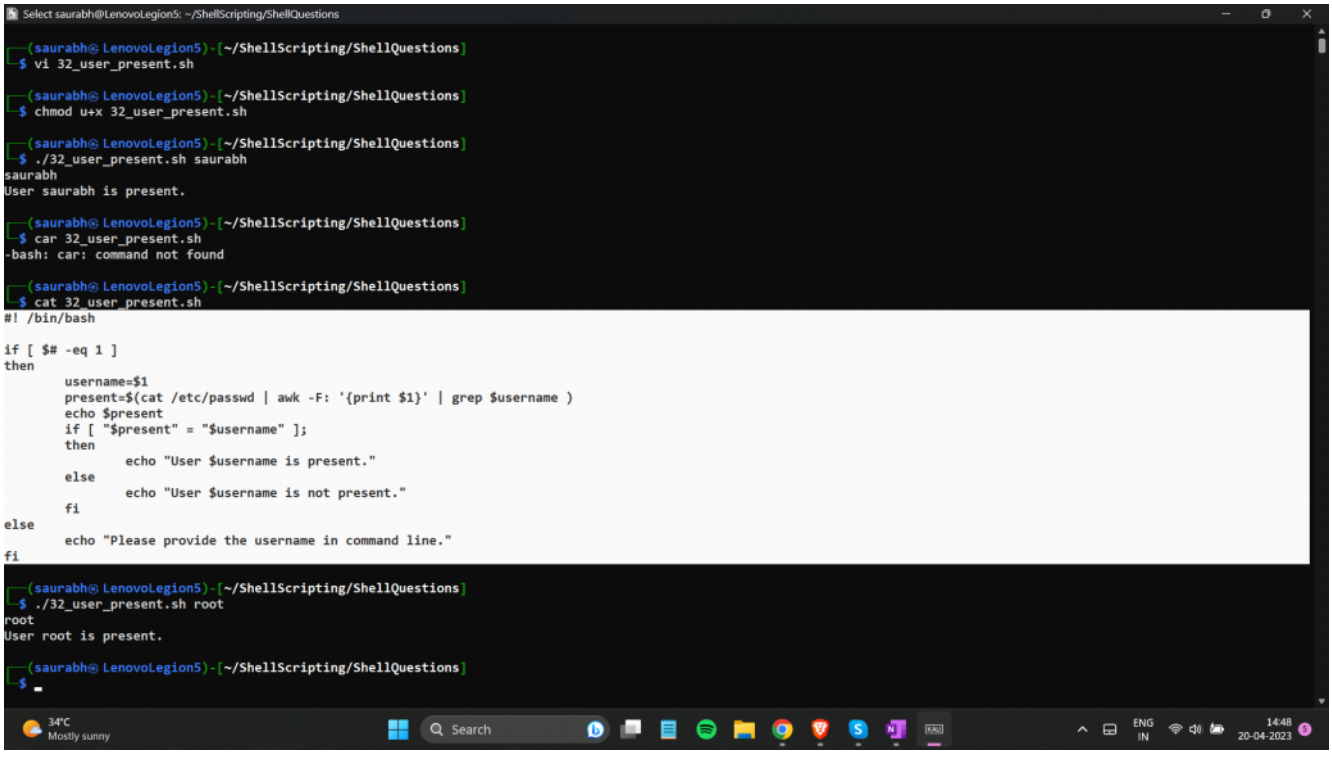
Description- Script to count the number of users with user IDs between 500 and 10000 on the system.



Question32:

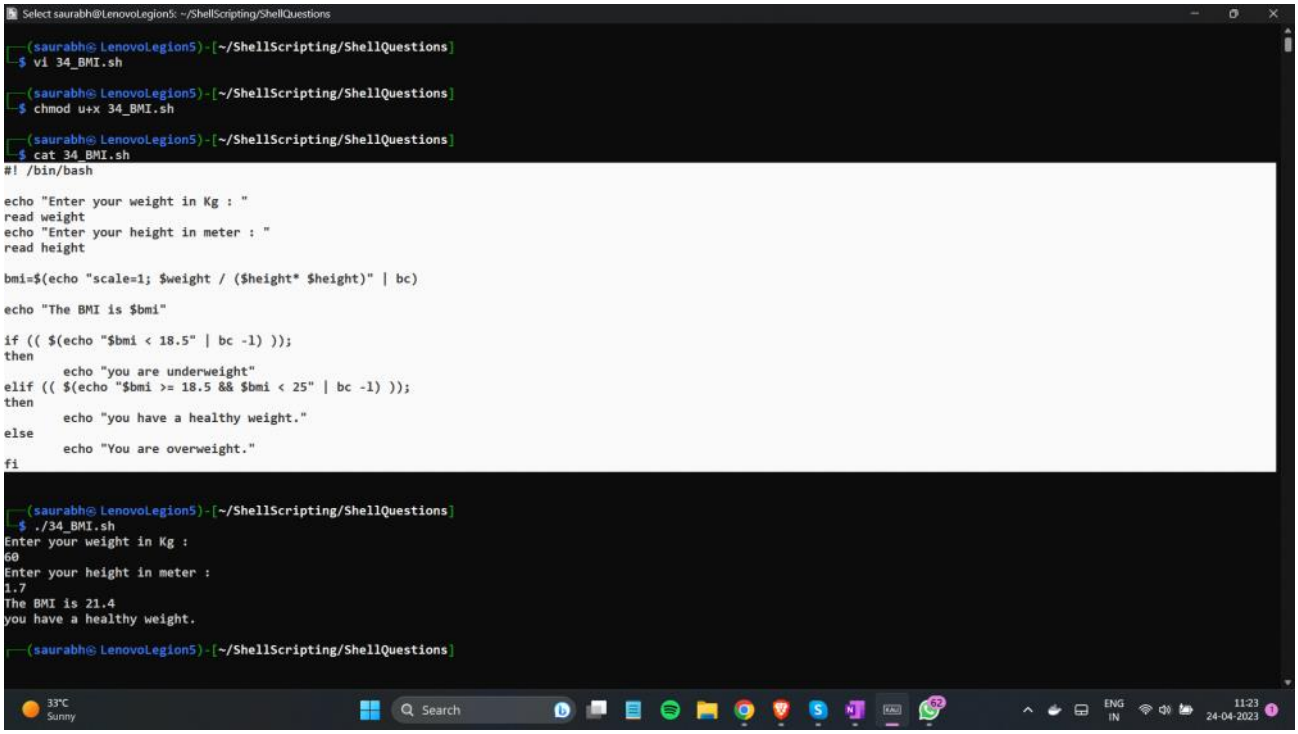
Description- Script to search a user present in the system.

Input- bash 32_user_present.sh root



Question34:

BMI calculator :


Select saurabh@LenovoLegion5: ~/ShellScripting/ShellQuestions
(saurabh㉿ LenovoLegion5)-[~/ShellScripting/ShellQuestions]
$ vi 34_BMI.sh
(saurabh㉿ LenovoLegion5)-[~/ShellScripting/ShellQuestions]
$ chmod u+x 34_BMI.sh
(saurabh㉿ LenovoLegion5)-[~/ShellScripting/ShellQuestions]
$ cat 34_BMI.sh
#! /bin/bash
echo "Enter your weight in Kg : "
read weight
echo "Enter your height in meter : "
read height
bmi=$(echo "scale=1; $weight / ($height* $height)" | bc)
echo "The BMI is $bmi"
if (($(echo "$bmi < 18.5" | bc -l)));
then
echo "you are underweight"
elif (($(echo "$bmi >= 18.5 && $bmi < 25" | bc -l)));
then
echo "you have a healthy weight."
else
echo "You are overweight."
fi
(saurabh㉿ LenovoLegion5)-[~/ShellScripting/ShellQuestions]
$ ./34_BMI.sh
Enter your weight in Kg :
60
Enter your height in meter :
1.7
The BMI is 21.4
you have a healthy weight.
(saurabh㉿ LenovoLegion5)-[~/ShellScripting/ShellQuestions]
33°C
Sunny
Search
ENG
IN
11:23
24-04-2023