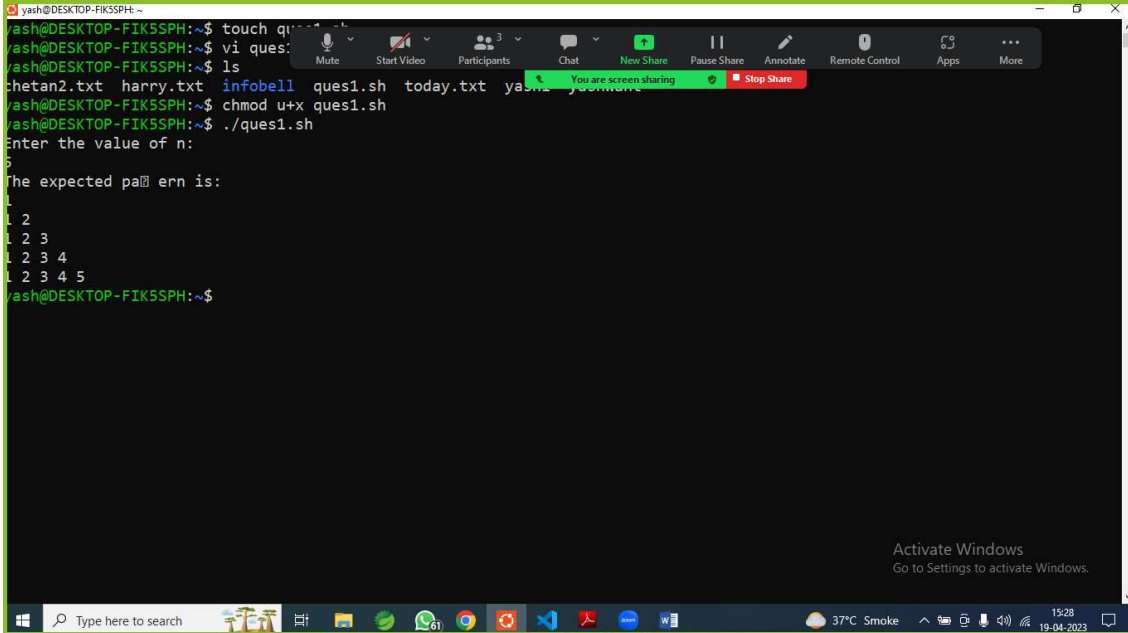


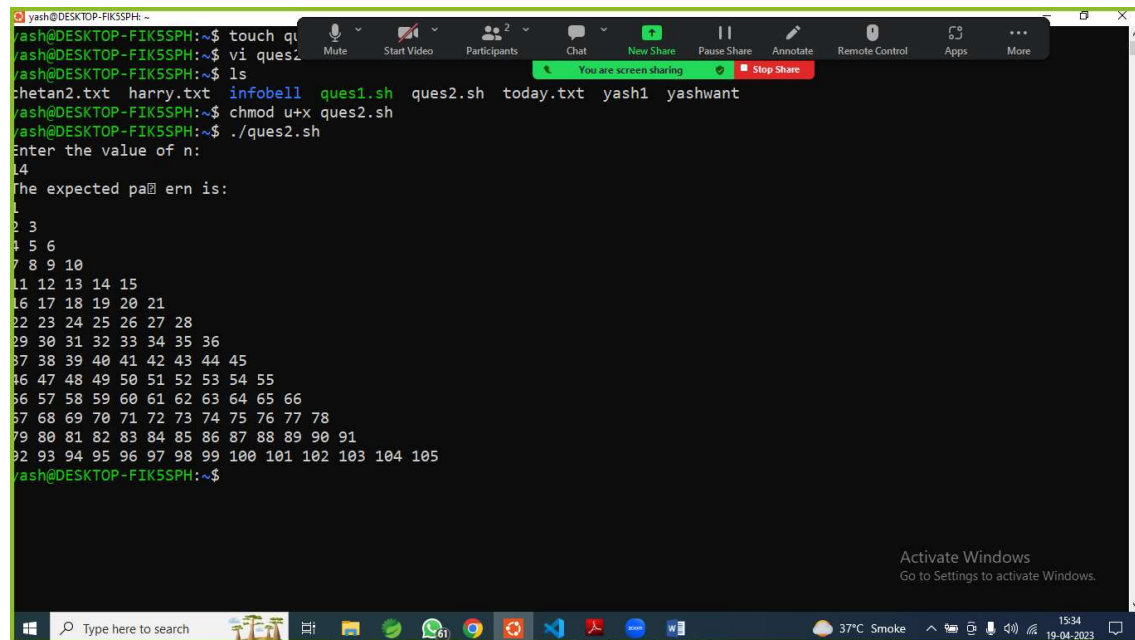
Assignment: 3
Name :Yashwant Singh Rathore
Topic : Shell Scripting
Date : 19 April 2023

Ques1

A screenshot of a Windows desktop with a terminal window open. The terminal shows a series of commands and their outputs. The commands include creating a file, editing it, listing files, changing permissions, and running a script. The script prompts for a value of n, which is 5, and then displays a pattern of numbers. A Windows taskbar is visible at the bottom with various icons and system information.

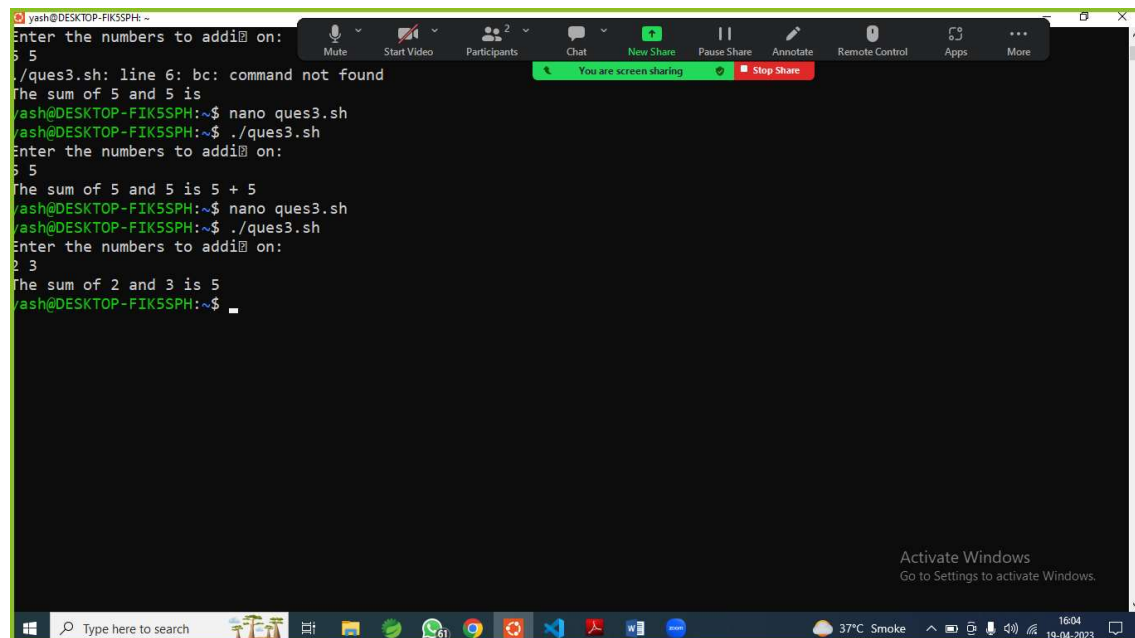
```
yash@DESKTOP-FIK5SPH: ~  
/ash@DESKTOP-FIK5SPH:~$ touch ques1.sh  
/ash@DESKTOP-FIK5SPH:~$ vi ques1.sh  
/ash@DESKTOP-FIK5SPH:~$ ls  
chetan2.txt  harry.txt  infobell  ques1.sh  today.txt  yashwant  
/ash@DESKTOP-FIK5SPH:~$ chmod u+x ques1.sh  
/ash@DESKTOP-FIK5SPH:~$ ./ques1.sh  
Enter the value of n:  
5  
The expected pattern is:  
1  
1 2  
1 2 3  
1 2 3 4  
1 2 3 4 5  
/ash@DESKTOP-FIK5SPH:~$
```

Ques 2



```
yash@DESKTOP-FIK5SPH: ~  
yash@DESKTOP-FIK5SPH:~$ touch ques2.sh  
yash@DESKTOP-FIK5SPH:~$ vi ques2.sh  
yash@DESKTOP-FIK5SPH:~$ ls  
chetan2.txt  harry.txt  infobell  ques1.sh  ques2.sh  today.txt  yash1  yashwant  
yash@DESKTOP-FIK5SPH:~$ chmod u+x ques2.sh  
yash@DESKTOP-FIK5SPH:~$ ./ques2.sh  
Enter the value of n:  
14  
The expected pattern is:  
1  
2 3  
4 5 6  
7 8 9 10  
11 12 13 14 15  
16 17 18 19 20 21  
22 23 24 25 26 27 28  
29 30 31 32 33 34 35 36  
37 38 39 40 41 42 43 44 45  
46 47 48 49 50 51 52 53 54 55  
56 57 58 59 60 61 62 63 64 65 66  
67 68 69 70 71 72 73 74 75 76 77 78  
79 80 81 82 83 84 85 86 87 88 89 90 91  
92 93 94 95 96 97 98 99 100 101 102 103 104 105  
yash@DESKTOP-FIK5SPH:~$
```

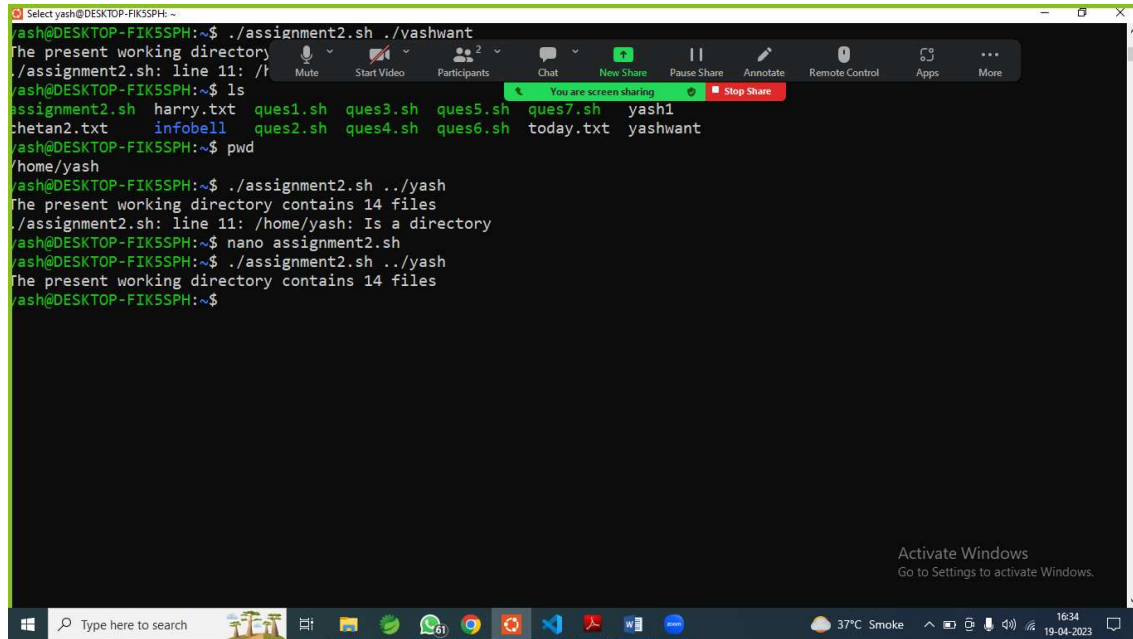
Ques 3



```
yash@DESKTOP-FIK5SPH: ~  
Enter the numbers to add on:  
5 5  
./ques3.sh: line 6: bc: command not found  
The sum of 5 and 5 is  
yash@DESKTOP-FIK5SPH:~$ nano ques3.sh  
yash@DESKTOP-FIK5SPH:~$ ./ques3.sh  
Enter the numbers to add on:  
5 5  
The sum of 5 and 5 is 5 + 5  
yash@DESKTOP-FIK5SPH:~$ nano ques3.sh  
yash@DESKTOP-FIK5SPH:~$ ./ques3.sh  
Enter the numbers to add on:  
2 3  
The sum of 2 and 3 is 5  
yash@DESKTOP-FIK5SPH:~$
```

Assignment ques 1

Write a shell script that consists of a function that displays the number of files in the present working directory. Name this function “file_count” and call it in your script. If you use variable in your function, remember to make it a local variable.



```
Select yash@DESKTOP-FIK5SPH:~  
yash@DESKTOP-FIK5SPH:~$ ./assignment2.sh ./yashwant  
The present working directory  
./assignment2.sh: line 11: /t  
yash@DESKTOP-FIK5SPH:~$ ls  
assignment2.sh  harry.txt  ques1.sh  ques3.sh  ques5.sh  ques7.sh  yash1  
chetan2.txt    infobell  ques2.sh  ques4.sh  ques6.sh  today.txt  yashwant  
yash@DESKTOP-FIK5SPH:~$ pwd  
/home/yash  
yash@DESKTOP-FIK5SPH:~$ ./assignment2.sh ./yash  
The present working directory contains 14 files  
./assignment2.sh: line 11: /home/yash: Is a directory  
yash@DESKTOP-FIK5SPH:~$ nano assignment2.sh  
yash@DESKTOP-FIK5SPH:~$ ./assignment2.sh ./yash  
The present working directory contains 14 files  
yash@DESKTOP-FIK5SPH:~$
```

Assignment ques 5

- Write a script that takes any number of directories as command-line arguments and then lists the contents of each of these directories.

```
yash@DESKTOP-FIK5SPH: ~  
yash@DESKTOP-FIK5SPH:~$ ./a5.sh  
./a5.sh: line 15: /home/yash: nano  
yash@DESKTOP-FIK5SPH:~$ ./a5.sh  
./a5.sh: line 15: /home/yash: Is a directory  
yash@DESKTOP-FIK5SPH:~$ nano a5.sh  
yash@DESKTOP-FIK5SPH:~$ ./a5.sh ./yash  
./yash is not a directory  
./a5.sh: line 15: /home/yash: Is a directory  
yash@DESKTOP-FIK5SPH:~$ ./a5.sh ../yash  
Content of ../yash:  
total 18  
-rwxr--r-- 1 yash yash 952 Apr 19 16:38 a5.sh  
-rwxr--r-- 1 yash yash 328 Apr 19 16:33 assignment2.sh  
-rw-r--r-- 1 yash yash 91 Apr 18 09:46 chetan2.txt  
-rw-r--r-- 1 yash yash 453 Apr 17 16:28 harry.txt  
-rwxr-xr-x 1 yash yash 512 Apr 13 14:51 infobell  
-rwxr--r-- 1 yash yash 176 Apr 19 15:26 ques1.sh  
-rwxr--r-- 1 yash yash 332 Apr 19 15:33 ques2.sh  
-rwxr--r-- 1 yash yash 220 Apr 19 16:03 ques3.sh  
-rwxr--r-- 1 yash yash 998 Apr 19 16:11 ques4.sh  
-rwxr--r-- 1 yash yash 580 Apr 19 16:14 ques5.sh  
-rwxr--r-- 1 yash yash 507 Apr 19 16:16 ques6.sh  
-rwxr--r-- 1 yash yash 695 Apr 19 16:20 ques7.sh  
-rw-r--r-- 1 yash yash 2098 Apr 17 17:15 today.txt  
-rw-r--r-- 1 yash yash 173 Apr 18 09:08 yash1  
-rw-r--r-- 1 yash yash 157 Apr 18 09:44 yashwant  
./a5.sh: line 15: /home/yash: Is a directory  
yash@DESKTOP-FIK5SPH:~$
```

Assignment ques 4

- Display the names of any file-system which have less than 10% free space available

```
yash@DESKTOP-FIK5SPH: ~  
-rwxr--r-- 1 yash yash 176 Apr 19 15:26 ques1.sh  
-rwxr--r-- 1 yash yash 332 Apr 19 15:33 ques2.sh  
-rwxr--r-- 1 yash yash 220 Apr 19 16:03 ques3.sh  
-rwxr--r-- 1 yash yash 998 Apr 19 16:11 ques4.sh  
-rwxr--r-- 1 yash yash 580 Apr 19 16:14 ques5.sh  
-rwxr--r-- 1 yash yash 507 Apr 19 16:16 ques6.sh  
-rwxr--r-- 1 yash yash 695 Apr 19 16:20 ques7.sh  
-rw-r--r-- 1 yash yash 2098 Apr 17 17:15 today.txt  
-rw-r--r-- 1 yash yash 173 Apr 18 09:08 yash1  
-rw-r--r-- 1 yash yash 157 Apr 18 09:44 yashwant  
./a5.sh: line 15: /home/yash: Is a directory  
yash@DESKTOP-FIK5SPH:~$ nano a4.sh  
yash@DESKTOP-FIK5SPH:~$ ./a4.sh ../yash  
-bash: ./a4.sh: Permission denied  
yash@DESKTOP-FIK5SPH:~$ chmod u+x a4.sh  
yash@DESKTOP-FIK5SPH:~$ ./a4.sh ../yash  
E:\  
G:\  
yash@DESKTOP-FIK5SPH:~$
```