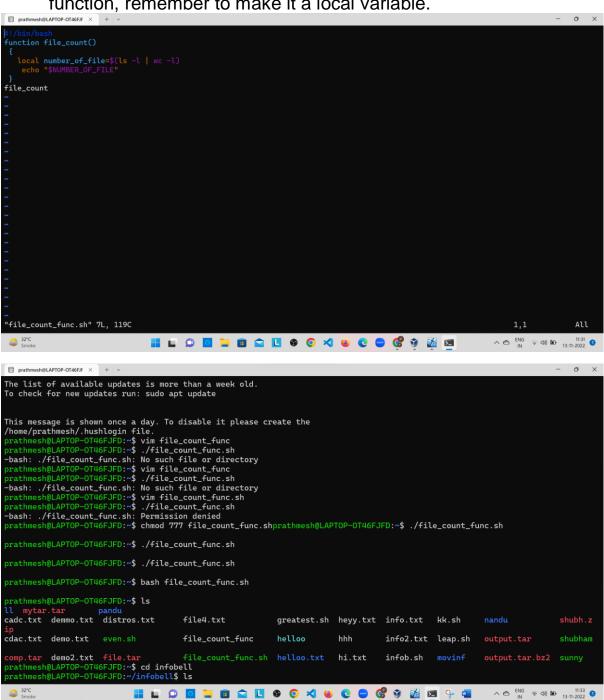
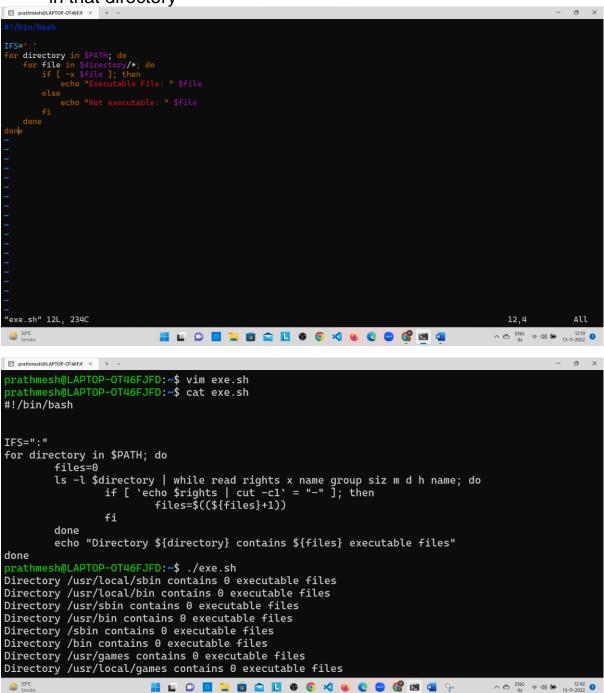
- 1) Write 5 shell scripts for following scenarios, checkin the files and screenshot documents checkin to GIT
 - Create the startup script for an application start and stop

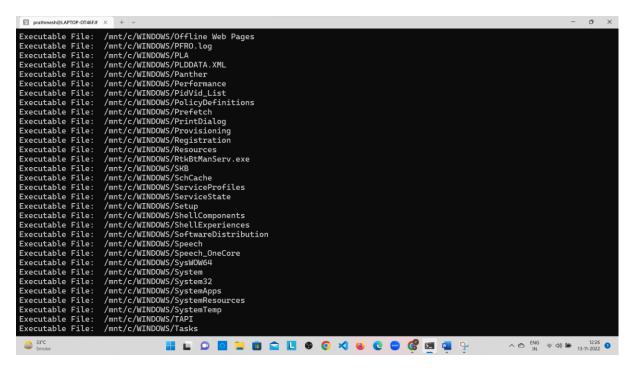
.....

 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.



 For each directory in the \$PATH, display the number of executable in that directory





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

```
288265212 258161008
                                                                  90% /run/lock
none
                     288265212 258161008
288265212 258161008
288265212 258161008
                                                                  90% /run/shm
none
                                                                 90% /run/user
90% /sys/fs/cgroup
90% /mnt/c
                                                30104204
none
tmpfs
                                                30104204
                     288265212 258161008 30104204
C:\
prathmesh@LAPTOP-OT46FJFD:~$ touch free.sh
prathmesh@LAPTOP-OT46FJFD:~$ vim free.sh
prathmesh@LAPTOP-OT46FJFD:~$ chmod +x free.sh
prathmesh@LAPTOP-OT46FJFD:~$ ./free.sh
96268
             90% /
                     288265212 258168944
                                                                  90% /dev
none
                                                30096268
                     288265212 258168944
288265212 258168944
288265212 258168944
none
                                                30096268
                                                                  90% /run
                                                                  90% /run/lock
none
                                                30096268
                                                                  90% /run/shm
                                                30096268
none
                     288265212 258168944
288265212 258168944
                                                                 90% /run/user
90% /sys/fs/cgroup
90% /mnt/c
                                                30096268
none
                                                30096268
tmpfs
                     288265212 258168944 30096268
prathmesh@LAPTOP-OT46FJFD:~$ vim free.sh
prathmesh@LAPTOP-OT46FJFD:~$ |
Smoke
```

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

```
46FJFD:~/infobellit/shell_script/d3$ cat Q5dircontent.sh
#!/bin/bash
for dir in "$@"
do
        cd $dir
        ls -lh
done
prathmesh@LAPTOP-OT46FJFD:~/infobellit/shell_script/d3$ bash Q5dircontent.sh d3
Q5dircontent.sh: line 4: cd: d3: No such file or directory
-rw-r--r-- 1 prathmesh prathmesh  67 Nov 15 12:42 Q5dircontent.sh
drwxr-xr-x 1 prathmesh prathmesh 512 Nov 15 11:28 d2
-rw-r--r-- 1 prathmesh prathmesh 53 Nov 15 12:40 dircontent5
-rw-r--r-- 1 prathmesh prathmesh 68 Nov 15 12:41 dircontent5.sh
-rwxr-xr-x 1 prathmesh prathmesh
                                  0 Nov 15 12:37 file11.txt
-rw-r--r-- 1 prathmesh prathmesh
                                  0 Nov 15 12:37 file22.txt
prathmesh@LAPTOP-OT46FJFD:~/infobellit/shell_script/d3$
```

```
prathmesh@LAPTOP-OT46FJFD:~/infobellit/shell_script$ cat 01pattern.sh
number=1
rows=6
for((i=1; i<=rows; i++))
        for((j=1; j<=i; j++))
                echo -n $number
                number=$((number+1))
        done
        echo
        number=1
done
prathmesh@LAPTOP-OT46FJFD:~/infobellit/shell_script$ bash Q1pattern.sh
12
123
1234
12345
123456
```

```
prathmesh@LAPTOP-OT46FJFD:~/infobellit/shell_script$ cat Q3add.sh
read -p "Enter first number : " a
read -p "Enter second number : " b
c='echo $a+$b | bc'
echo "the sum of $a and $b is $c"
prathmesh@LAPTOP-OT46FJFD:~/infobellit/shell_script$ bash Q3add.sh
Enter first number : 20
Enter second number : 30
the sum of 20 and 30 is 50
prathmesh@LAPTOP-OT46FJFD:~/infobellit/shell_script$
```

```
prathmesh@LAPTOP-OT46FJFD:~/infobellit/shell_script$ bash 15rename.sh d2 d3
prathmesh@LAPTOP-OT46FJFD:~/infobellit/shell_script$ ls
15rename.sh Q3add.sh Q6reverse.sh
Q1pattern.sh Q4array.sh d3
Q2pattern.sh Q5large.sh
prathmesh@LAPTOP-OT46FJFD:~/infobellit/shell_script$ cat 15rename.sh
nv $1 $2
prathmesh@LAPTOP-OT46FJFD:~/infobellit/shell_script$ |
```

```
prathmesh@LAPTOP-OT46FJFD:~/infobellit/shell_script$ cat Q4array.sh
#! bin/bash

echo "Enter a expression : "
   read -a arr
   e='echo ${arr[@]} | bc'
   echo "the result of given expression is $e"
   prathmesh@LAPTOP-OT46FJFD:~/infobellit/shell_script$ bash Q4array.sh
   Enter a expression :
20 + 55
   the result of given expression is 75
   prathmesh@LAPTOP-OT46FJFD:~/infobellit/shell_script$ |
```

```
prathmesh@LAPTOP-OT46FJFD:~/infobellit/shell_script$ cat Q5large.sh
#! bin/bash
read -a arr
c=0
for i in "${arr[@]}"
do
        if (($i>$c))
        then
                c=$i
        fi
done
echo "largest number is $c"
prathmesh@LAPTOP-OT46FJFD:~/infobellit/shell_script$ bash Q5large.sh
55 20 967 5
largest number is 967
prathmesh@LAPTOP-OT46FJFD:~/infobellit/shell_script$
```

```
prathmesh@LAPTOP-OT46FJFD:~/infobellit/shell_script$ cat Q6reverse.sh
#! bin/bash
read -p "Enter a number to reverse : " a
n=0
while [ $a -gt 0 ]
do
         d=$(( $a % 10 ))
n=$(( $n * 10 + $d ))
          a=$(( $a / 10))
done
echo $n
prathmesh@LAPTOP-OT46FJFD:~/infobellit/shell_script$ bash Q6reverse.sh
Enter a number to reverse : 56987
78965
prathmesh@LAPTOP-OT46FJFD:~/infobellit/shell_script$ cat Q14upper_lower.sh
#!/bin/bash
read a;
b= cat $a | tr 'a-z' 'A-Z'
echo $b
prathmesh@LAPTOP-OT46FJFD:~/infobellit/shell_script$ bash Q14upper_lower.sh
HELLO
LINE 2
LINE3
LINE4
LINE5
LINE6
root@LAPTOP-OT46FJFD:/# cat Q18large_user.sh
#!/bin/bash
cat /etc/shadow | awk -F ':' '{print length($1), $1}' | sort -rn | head -n 1 cat /etc/shadow | awk -F ':' '{print length($1), $1}' | sort -rn | tail -n 1
root@LAPTOP-OT46FJFD:/# bash Q18large_user.sh
16 systemd-timesync
2 lp
root@LAPTOP-OT46FJFD:/#
```