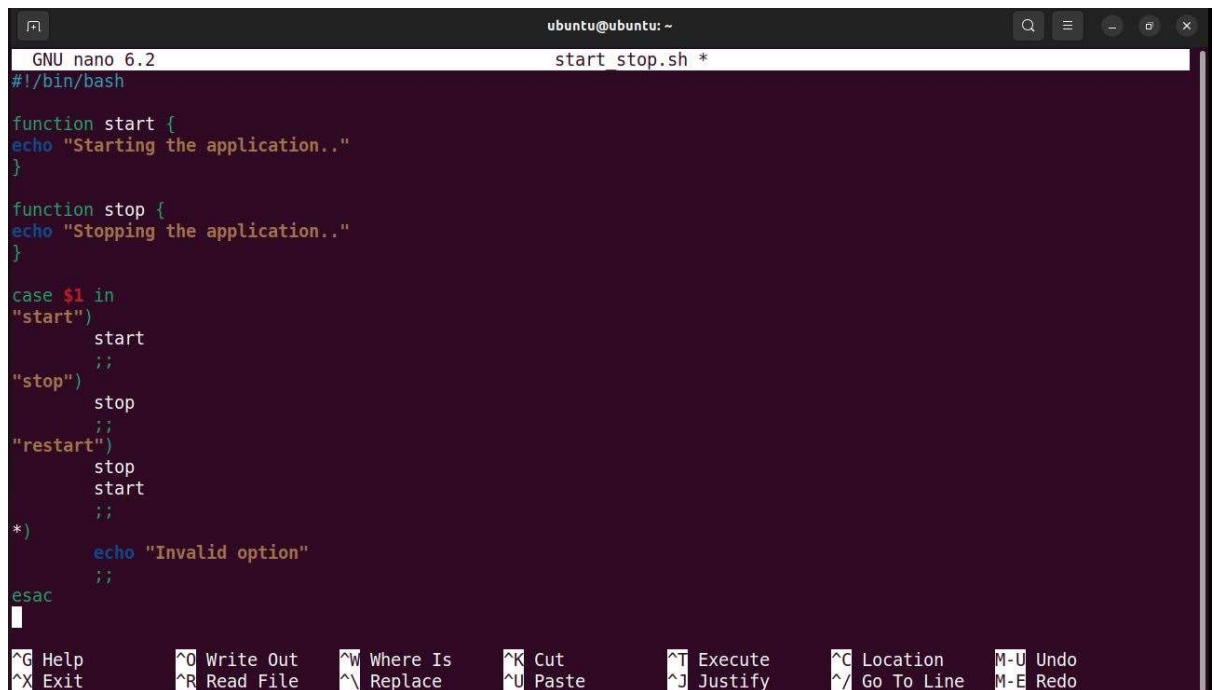


- Write 5 shell scripts for following scenarios, checkin the files and screenshot documents checkin to GIT
1. Create the startup script for an application start and stop



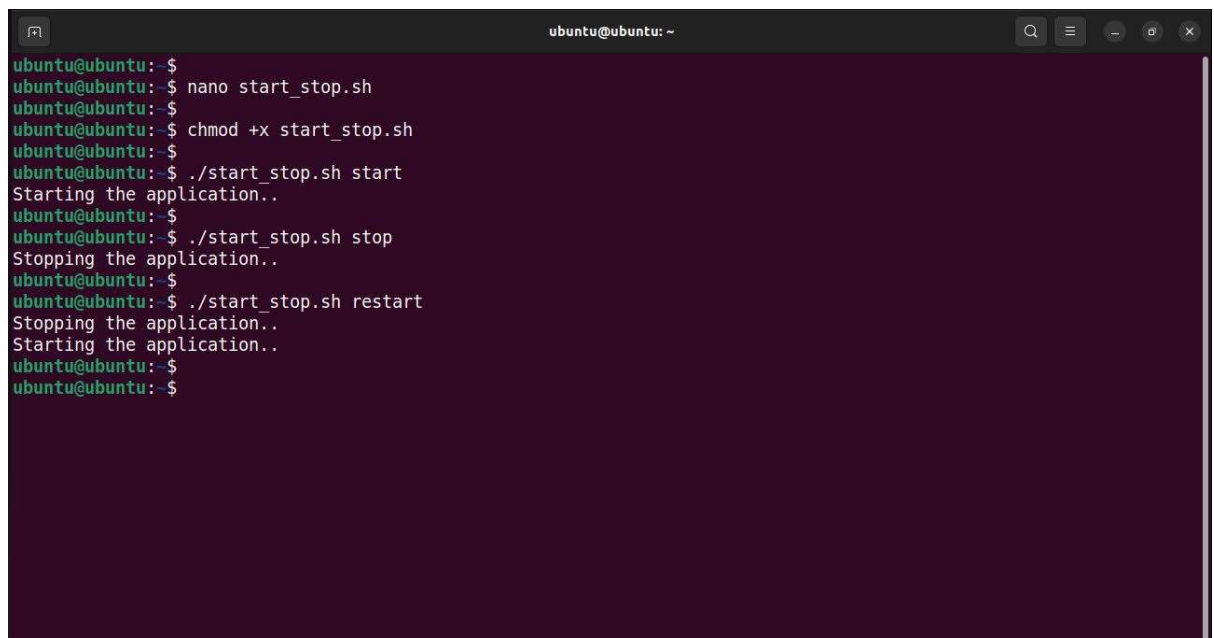
```
GNU nano 6.2 start_stop.sh *
#!/bin/bash

function start {
echo "Starting the application.."
}

function stop {
echo "Stopping the application.."
}

case $1 in
"start")
start
;;
"stop")
stop
;;
"restart")
stop
start
;;
*)
echo "Invalid option"
;;
esac

^G Help      ^O Write Out  ^W Where Is   ^K Cut        ^T Execute    ^C Location   M-U Undo
^X Exit      ^R Read File  ^\ Replace    ^U Paste      ^J Justify    ^_ Go To Line  M-E Redo
```



```
ubuntu@ubuntu: ~
ubuntu@ubuntu:~$ nano start_stop.sh
ubuntu@ubuntu:~$ chmod +x start_stop.sh
ubuntu@ubuntu:~$ ./start_stop.sh start
Starting the application..
ubuntu@ubuntu:~$ ./start_stop.sh stop
Stopping the application..
ubuntu@ubuntu:~$ ./start_stop.sh restart
Stopping the application..
Starting the application..
ubuntu@ubuntu:~$
ubuntu@ubuntu:~$
```

2. 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.

```
ubuntu@ubuntu: ~  
GNU nano 6.2 file_count.sh  
#!/bin/bash  
  
function file_count {  
    local count=$(ls -l | wc -l)  
    echo "The total number of files are : $count"  
}  
  
file_count
```

```
ubuntu@ubuntu:~$  
ubuntu@ubuntu:~$ nano file_count.sh  
ubuntu@ubuntu:~$  
ubuntu@ubuntu:~$ ls -l  
total 8  
drwxr-xr-x 2 ubuntu ubuntu 60 Apr 20 04:04 Desktop  
drwxr-xr-x 2 ubuntu ubuntu 40 Apr 20 04:11 Documents  
drwxr-xr-x 2 ubuntu ubuntu 40 Apr 20 04:11 Downloads  
-rw-rw-r-- 1 ubuntu ubuntu 130 Apr 20 07:15 file_count.sh  
drwxr-xr-x 2 ubuntu ubuntu 40 Apr 20 04:11 Music  
drwxr-xr-x 2 ubuntu ubuntu 40 Apr 20 04:11 Pictures  
drwxr-xr-x 2 ubuntu ubuntu 40 Apr 20 04:11 Public  
drwx----- 3 ubuntu ubuntu 60 Apr 20 04:07 snap  
-rwxrwxr-x 1 ubuntu ubuntu 232 Apr 20 07:08 start_stop.sh  
drwxr-xr-x 2 ubuntu ubuntu 40 Apr 20 04:11 Templates  
drwxr-xr-x 2 ubuntu ubuntu 40 Apr 20 04:11 Videos  
ubuntu@ubuntu:~$  
ubuntu@ubuntu:~$ chmod +x file_count.sh  
ubuntu@ubuntu:~$  
ubuntu@ubuntu:~$ ./file_count.sh  
The total number of files are : 12  
ubuntu@ubuntu:~$
```

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

```
ubuntu@ubuntu: ~  
GNU nano 6.2 executableindir.sh  
#!/bin/bash  
  
IFS=":" read -ra PATH_arr <<< "$PATH"  
  
for dir in "${PATH_arr[@]};  
do  
count=$(find "$dir" -maxdepth 1 -type f -executable | wc -l)  
  
echo "$dir : $count"  
  
done
```

```
ubuntu@ubuntu: ~  
ubuntu@ubuntu:~$ nano executableindir.sh  
ubuntu@ubuntu:~$ chmod +x executableindir.sh  
ubuntu@ubuntu:~$ ./executableindir.sh  
/usr/local/sbin : 0  
/usr/local/bin : 0  
/usr/sbin : 367  
/usr/bin : 1229  
/sbin : 0  
/bin : 0  
/usr/games : 6  
/usr/local/games : 0  
/snap/bin : 0  
/snap/bin : 0  
ubuntu@ubuntu:~$
```

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

```
ubuntu@ubuntu: ~  
GNU nano 6.2 lessthan10%space.sh  
#!/bin/bash  
  
df -h awk '{if ($5 -lt "10%") print $1}'  
  
|
```

```
ubuntu@ubuntu: ~  
ubuntu@ubuntu:~$ nano lessthan10%space.sh  
ubuntu@ubuntu:~$ nano lessthan10%space.sh  
ubuntu@ubuntu:~$ chmod +x lessthan10%space.sh  
ubuntu@ubuntu:~$ ./lessthan10%space.sh  
df: awk: No such file or directory  
df: '{if ($5 -lt "10%") print $1}': No such file or directory  
ubuntu@ubuntu:~$  
ubuntu@ubuntu:~$ ./lessthan10%space.sh  
df: awk: No such file or directory  
df: '{if ($5 -lt "10%") print $1}': No such file or directory  
ubuntu@ubuntu:~$  
ubuntu@ubuntu:~$ |
```

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

```
ubuntu@ubuntu: ~  
GNU nano 6.2 dir_content.sh  
#!/bin/bash  
  
for dir in "$@";  
do  
    echo -n "The Content of directory : "  
    ls -l "$dir"  
  
done
```

```
ubuntu@ubuntu: ~  
ubuntu@ubuntu:~$ ls -d */  
Desktop/ Documents/ Downloads/ Music/ Pictures/ Public/ snap/ Templates/ Videos/  
ubuntu@ubuntu:~$ nano dir_content.sh  
ubuntu@ubuntu:~$ chmod +x dir_content.sh  
ubuntu@ubuntu:~$ ./dir_content.sh Desktop/  
The Content of directory : total 12  
-rwxr-xr-x 1 ubuntu ubuntu 8273 Apr 20 04:04 ubiquity.desktop  
ubuntu@ubuntu:~$ ./dir_content.sh Documents/  
The Content of directory : total 0  
ubuntu@ubuntu:~$ ./dir_content.sh Downloads/  
The Content of directory : total 0  
ubuntu@ubuntu:~$ ./dir_content.sh Pictures/  
The Content of directory : total 0  
ubuntu@ubuntu:~$ ./dir_content.sh Documents/  
The Content of directory : total 4  
-rwxrwxr-x 1 ubuntu ubuntu 232 Apr 20 07:08 start_stop.sh  
ubuntu@ubuntu:~$
```