Shell Script 1

1) Create the startup script for an application start and stop

```
🤨 root@PRATIK: /home/pratik
#!/bin/bash
app_name="Script1"
app_path="D:\Infobell Training"
       if pgrep -f "$app_name" > /dev/null; then
               nohup ./run.sh > /dev/null 2>&1 &
       start)
       stop)
       restart)
               echo "Usage : $0 {start|stop|restart}"
```

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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.

```
root@PRATIK:/home/pratik# vi Q2
root@PRATIK:/home/pratik# vi Q2
root@PRATIK:/home/pratik# chmod +x Q2
root@PRATIK:/home/pratik# ./Q2
There are 12 files in the current directory.
root@PRATIK:/home/pratik# vi Q1
root@PRATIK:/home/pratik# vi Q2
root@PRATIK:/home/pratik# =
```

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

```
root@PRATIK:/home/pratik# vi Q3
root@PRATIK:/home/pratik# chmod +x Q3
root@PRATIK:/home/pratik# ./Q3
There are 0 executables in /usr/local/sbin
There are 0 executables in /usr/sbin
There are 201 executables in /usr/sbin
There are 682 executables in /usr/bin
There are 0 executables in /sbin
There are 0 executables in /bin
There are 0 executables in /usr/games
There are 0 executables in /usr/local/games
There are 0 executables in /snap/bin
root@PRATIK:/home/pratik# vi Q3
root@PRATIK:/home/pratik# __
```

 $\cdot 4)$ Display the names of any file-system which have less than 10% free space available

```
cot@PRATIK:/home/pratik
#!/bin/bash

# Loop over all mounted file systems
df -h | tail -n +2 | while read -r filesystem size used avail percent mountpoint; do
    # Remove the % sign from the percent used value
    percent=${percent%\%}

# Check if the percent used is greater than 90
if [ "$percent" -gt 90 ]; then
    echo "$filesystem has less than 10% free space available"
fi
done
```

```
root@PRATIK:/home/pratik# vi Q4
root@PRATIK:/home/pratik# ./Q4
tools has less than 10% free space available
drivers has less than 10% free space available
lib has less than 10% free space available
drvfs has less than 10% free space available
drvfs has less than 10% free space available
root@PRATIK:/home/pratik# ■
```

 \cdot 5) Write a script that takes any number of directories as commandline arguments and then lists the contents of each of these directories

```
in root@PRATIK: /home/pratik
#!/bin/bash

# Loop over all command-line arguments (directories)
for dir in "$@"; do
    echo "Contents of directory $dir:"
    ls -al "$dir"

done
```

```
🌖 root@PRATIK: /home/pratik
root@PRATIK:/home/pratik# chmod +x Q5
root@PRATIK:/home/pratik# ./Q5 /home/
Contents of directory /home/:
total 44
drwxr-xr-x 4 root
                            4096 Apr 19 16:05 .
                     root
drwxr-xr-x 19 root
                            4096 Apr 20 13:39 ...
                     root
                             132 Apr 19 15:50 for loop.sh
-rwxr-xr-x 1 root
                     root
                              62 Apr 19 16:01 function.sh
-rwxr-xr-x 1 root
                     root
drwxr-xr-x 3 root
                            4096 Apr 9 03:56 git practice
                     root
                             218 Apr 19 15:40 if elif.sh
-rwxr-xr-x 1 root
                     root
                             149 Apr 19 15:33 if else.sh
-rwxr-xr-x 1 root
                     root
drwxr-x--- 4 pratik pratik 4096 Apr 20 14:15 pratik
-rwxr-xr-x 1 root
                              55 Apr 19 15:22 pratik.sh
                     root
                              74 Apr 19 15:26 read
-rwxr-xr-x 1 root
                     root
                              56 Apr 19 15:56 while.sh
-rwxr-xr-x 1 root
                     root
root@PRATIK:/home/pratik# _
```