

OS LAB 4

Question 1. To study and implement shell programs in Linux.

```
mca@mca-HP-ProOne-440-23-8-inch-G9-All-in-One-Desktop-PC:~$ touch my_script.sh
mca@mca-HP-ProOne-440-23-8-inch-G9-All-in-One-Desktop-PC:~$ nano my_script.sh
```

FIGURE 1. Creating and editing the shell file

```
GNU nano 7.2                                     my_script.sh
#!/bin/bash

clear
echo "Current User : "
whoami
echo

echo "List of directories :"
ls
echo

echo "System Info :"
uname
echo

echo "Disk Space Usage :"
df
echo

[ Read 19 lines ]
^G Help      ^O Write Out  ^W Where Is  ^K Cut      ^T Execu
^X Exit     ^R Read File  ^\ Replace   ^U Paste    ^J Justi
```

FIGURE 2. Content inside the shell file

We execute the file using the command : sh my_script.sh

```
Current User :  
mca  
  
List of directories :  
Android Music  
android-studio my_script.sh  
AndroidStudioProjects Pictures  
atharva Public  
Desktop SAurabh  
Documents snap  
Downloads spark-3.5.3-bin-hadoop3.tgz.sha512  
express-app spark-3.5.3-bin-hadoop3.tgz.sha512.1  
google-chrome-stable_current_amd64.deb Templates  
malloc-code Videos  
malloc-code.zip  
  
System Info :  
Linux  
  
Disk Space Usage :  
Filesystem 1K-blocks Used Available Use% Mounted on  
tmpfs 779236 2368 776868 1% /run  
/dev/nvme0n1p2 243937628 39380804 192092648 18% /  
tmpfs 3896180 56840 3839340 2% /dev/shm  
tmpfs 5120 8 5112 1% /run/lock  
efivarfs 246 145 97 60% /sys/firmware/efi/efivars  
/dev/nvme0n1p1 1098632 6288 1092344 1% /boot/efi  
tmpfs 779236 124 779112 1% /run/user/1000
```

FIGURE 3. Output