1. Write shell script to show various system configurations like
- Currently logged user and his log in name
- Your current shell
- Your home directory
- Your operating system type
- Your current working directory

Shell Script

```bash
1 #!/bin/bash
2
3 echo " "
4 echo -n " Current Logged user is      : "
5 whoami
6 echo " =================================================================="
7 echo ""
8 echo " Current Shell"
9 echo " ------------"
10 echo "$SHELL"
11 echo " =================================================================="
12 echo ""
13 echo " Home Directory "
14 echo " ------------- "
15 echo $HOME
16 echo " =================================================================="
17 echo ""
18 echo " Operating System "
19 echo " --------------- "
20 uname
21 lsb_release -i -d -r -c
22 echo " =================================================================="
23 echo ""
24 echo " Present working directory "
25 echo " ----------------------- "
26 pwd
27 echo " =================================================================="
```

Output

```
shiyas@shiyas-VirtualBox:~/shell$ ./prgm_1.sh

 Current Logged user is        : shiyas
 =================================================================

 Current Shell
 ------------
/bin/bash
 =================================================================

 Home Directory
 -------------
/home/shiyas
 =================================================================

 Operating System
 ---------------
Linux
Distributor ID: Ubuntu
Description:    Ubuntu 20.04.3 LTS
Release:        20.04
Codename:       focal
 =================================================================

 Present working directory
 -----------------------
/home/shiyas/shell
 =================================================================
shiyas@shiyas-VirtualBox:~/shell$
```

2. Write shell script to show various system configurations like
- Your OS and version, release number, kernel version
- all available shells
- File System

Shell Script

```
1 #!/bin/bash
2
3 echo ""
4 echo " OS and Version, Release Number, Kernel Version "
5 echo " --------------------------------------------- "
6 cat /etc/os-release
7 cat /proc/version
8 echo " =============================================================="
9 echo ""
10 echo " All available shells "
11 echo " ------------------- "
12 cat /etc/shells
13 echo " =============================================================="
14 echo ""
15 echo " All File System "
16 echo " -------------- "
17 df -hT
18 echo " =============================================================="
19
```

Output

```
shiyas@shiyas-VirtualBox:~/shell$ ./prgm_2.sh

 OS and Version, Release Number, Kernel Version
 ---------------------------------------------
NAME="Ubuntu"
VERSION="20.04.3 LTS (Focal Fossa)"
ID=ubuntu
ID_LIKE=debian
PRETTY_NAME="Ubuntu 20.04.3 LTS"
VERSION_ID="20.04"
HOME_URL="https://www.ubuntu.com/"
SUPPORT_URL="https://help.ubuntu.com/"
BUG_REPORT_URL="https://bugs.launchpad.net/ubuntu/"
PRIVACY_POLICY_URL="https://www.ubuntu.com/legal/terms-and-policies/privacy-policy"
VERSION_CODENAME=focal
UBUNTU_CODENAME=focal
Linux version 5.11.0-36-generic (buildd@lcy01-amd64-004) (gcc (Ubuntu 9.3.0-17ubuntu1~20.04) 9.3.0,
 GNU ld (GNU Binutils for Ubuntu) 2.34) #40~20.04.1-Ubuntu SMP Sat Sep 18 02:14:19 UTC 2021
 ==============================================================

 All available shells
 -------------------
# /etc/shells: valid login shells
/bin/sh
/bin/bash
/usr/bin/bash
/bin/rbash
/usr/bin/rbash
/bin/dash
/usr/bin/dash
 ==============================================================
```

```
 All available shells
 ------------------
# /etc/shells: valid login shells
/bin/sh
/bin/bash
/usr/bin/bash
/bin/rbash
/usr/bin/rbash
/bin/dash
/usr/bin/dash
 ===================================================================

 All File System
 --------------
Filesystem      Type      Size  Used Avail Use% Mounted on
udev            devtmpfs  461M     0  461M   0% /dev
tmpfs           tmpfs      98M  1.4M   97M   2% /run
/dev/sda5       ext4       24G  7.9G   15G  35% /
tmpfs           tmpfs     490M     0  490M   0% /dev/shm
tmpfs           tmpfs     5.0M  4.0K  5.0M   1% /run/lock
tmpfs           tmpfs     490M     0  490M   0% /sys/fs/cgroup
/dev/loop2      squashfs  219M  219M     0 100% /snap/gnome-3-34-1804/66
/dev/loop3      squashfs  128K  128K     0 100% /snap/bare/5
/dev/loop0      squashfs   56M   56M     0 100% /snap/core18/1988
/dev/loop5      squashfs   65M   65M     0 100% /snap/gtk-common-themes/1514
/dev/loop8      squashfs   51M   51M     0 100% /snap/snap-store/547
/dev/loop6      squashfs   52M   52M     0 100% /snap/snap-store/518
/dev/loop7      squashfs   66M   66M     0 100% /snap/gtk-common-themes/1519
/dev/loop9      squashfs   32M   32M     0 100% /snap/snapd/11036
/dev/loop4      squashfs  219M  219M     0 100% /snap/gnome-3-34-1804/72
/dev/loop1      squashfs   56M   56M     0 100% /snap/core18/2128
/dev/loop10     squashfs   33M   33M     0 100% /snap/snapd/13170
/dev/sda1       vfat      511M  4.0K  511M   1% /boot/efi
tmpfs           tmpfs      98M   60K   98M   1% /run/user/1000
/dev/sr0        iso9660    59M   59M     0 100% /media/shiyas/VBox_GAs_6.1.26
 ===================================================================
shiyas@shiyas-VirtualBox:~/shell$
```