

1.

```
#!/bin/bash
```

```
machine()
```

```
{
```

```
    echo Machine;; uname -a
```

```
    echo Current directory;; pwd
```

```
    echo Current user;; whoami
```

```
    echo Users;; w
```

```
    echo Date;; date
```

```
    echo Status;; uptime
```

```
    echo Filesystem;; df -h
```

```
}
```

```
machine
```

Machine:

Linux archlinux 6.8.2-arch2-1 #1 SMP PREEMPT_DYNAMIC Thu, 28 Mar 2024 17:06:35 +0000 x86_64 GNU/Linux

Current directory:

/home/tetroner/A41_7

Current user:

tetroner

Users:

19:36:09 up 18:50, 1 user, load average: 2.74, 2.65, 2.45

USER	TTY	LOGIN@	IDLE	JCPU	PCPU	WHAT
tetroner	tty2	17:49	13:20m	6:22	0.05s	/usr/lib/sddm/sddm-

Date:

Sat Mar 30 07:36:09 PM IST 2024

Status:

19:36:09 up 18:50, 1 user, load average: 2.74, 2.65, 2.45

Filesystem:

Filesystem	Size	Used	Avail	Use%	Mounted on
dev	7.7G	0	7.7G	0%	/dev
run	7.8G	2.0M	7.8G	1%	/run
efivarfs	192K	59K	129K	32%	/sys/firmware/efi/efivars
/dev/nvme1n1p2	468G	269G	176G	61%	/
tmpfs	7.8G	31M	7.7G	1%	/dev/shm
tmpfs	7.8G	16M	7.7G	1%	/tmp
/dev/nvme1n1p1	511M	110M	402M	22%	/boot
tmpfs	1.6G	50M	1.5G	4%	/run/user/1000

2.

```
#!/bin/bash

machine()
{
    echo -e "\e[29;44m***** HOSTNAME INFORMATION *****\e[0m"
    hostnamectl
    echo " "
    echo -e "\e[29;44m***** FILE SYSTEM DISK SPACE USAGE *****\e[0m"
    df -h
    echo " "
    echo -e "\e[29;44m***** FREE & USED MEMORY *****\e[0m"
    free
    echo " "
    echo -e "\e[1;32m***** SYSTEM UPTIME $ LOAD *****\e[0m"
    uptime
    echo " "
    echo -e "\e[29;44m***** CURRENTLY LOGGED-IN USERS *****\e[0m"
    who
    echo " "
    echo -e "\e[29;44m***** TOP 5 MEMORY-CONSUMING PROCESSES *****\e[0m"
    ps -eo %mem,%cpu,comm --sort=-%mem | head -n 6
    echo " "
    echo -e "\e[1;32mDone.\e[0m"
}

machine
```

```
$ bash 2.sh
```

```
***** HOSTNAME INFORMATION *****
```

```
Static hostname: archlinux
Icon name: computer-laptop
Chassis: laptop 🖥️
Machine ID: 1b0702b59f924a19a38d9cb3d6bd72f5
Boot ID: 1be519dbff5442a7a6ab1725c217fe35
Operating System: Arch Linux
Kernel: Linux 6.8.2-arch2-1
Architecture: x86_64
Hardware Vendor: Micro-Star International Co., Ltd.
Hardware Model: GF65 Thin 9SD
Firmware Version: E16W1IMS.10C
Firmware Date: Thu 2021-10-21
Firmware Age: 2y 5month 1w 1d
```

```
***** FILE SYSTEM DISK SPACE USAGE *****
```

Filesystem	Size	Used	Avail	Use%	Mounted on
dev	7.7G	0	7.7G	0%	/dev
run	7.8G	2.0M	7.8G	1%	/run
efivarfs	192K	59K	129K	32%	/sys/firmware/efi/efivars
/dev/nvme1n1p2	468G	269G	176G	61%	/
tmpfs	7.8G	31M	7.7G	1%	/dev/shm
tmpfs	7.8G	17M	7.7G	1%	/tmp
/dev/nvme1n1p1	511M	110M	402M	22%	/boot
tmpfs	1.6G	50M	1.5G	4%	/run/user/1000

```
***** FREE & USED MEMORY *****
```

	total	used	free	shared	buff/cache	available
Mem:	16171948	11143772	833388	481364	5017876	5028176
Swap:	4194300	7424	4186876			

```
***** SYSTEM UPTIME $ LOAD *****
```

```
19:45:25 up 19:00, 1 user, load average: 2.25, 2.22, 2.37
```

```
***** CURRENTLY LOGGED-IN USERS *****
```

```
tetroner          2024-03-30 17:49
tetroner tty2      2024-03-30 17:49 (:0)
tetroner pts/0     2024-03-30 17:49 (:0)
```

```
***** TOP 5 MEMORY-CONSUMING PROCESSES *****
```

%MEM	%CPU	COMMAND
16.7	8.2	java
9.8	2.9	plasmashell
6.7	0.5	plasma-discover
3.3	8.4	brave
3.0	9.2	Discord

```
one.
```