

OBSERVATION

OS: DISTRIB_ID = Ubuntu
DISTRIB_RELEASE = 18.04
DISTRIB_CODENAME = bionic
DISTRIB_DESCRIPTION = "Ubuntu 18.04.1"
Available shells:
#/etc/shells: Valid login shells
/bin/sh
/bin/bash
/bin/rbash
/bin/dash

Computer CPU Information:

processor : 0
vendor_id : GenuineIntel
cpu family : 6
:

Computer Memory Information

MemTotal : 3855268 KB
MemFree : 1143376 KB
MemAvailable : 1241488 KB
Buffers : 12488 KB
:

EXPERIMENT NO : 5

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SYSTEM

CONFIGURATION

Aim:

To write shell scripts to show various system configurations like

- About your OS and version, release number, kernel version.
- Show all available shells.
- Show mouse settings.
- Show computer CPU information like processor type speed etc.
- Show memory information.
- Show hard disk information like size of hard disk, cache memory model etc.
- File system mounted.

SHELL SCRIPT

```
if [-f /etc/lsb-release]
then
echo "OS: 'cat /etc/lsb-release' " >> my file.
fi
if [-f /etc/shells]
then
echo "Available shells: " >> my file
echo "`cat /etc/shells`" >> my file.
fi
```

File System (Mount):

sysfs/sys sysfs rw, nosuid, nodev, noexec, ^{relative}
proc/proc proc rw, nosuid, nodev, noexec, ^{relative}
...

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```
if [-f /etc/sysconfig/mouse]
then
echo "-----" >> myfile
echo "Computer mouse information:" >> myfile
echo "-----" >> myfile
echo "`cat /etc/sysconfig/mouse`" >> myfile
fi
echo "-----" >> myfile
echo "Computer Mouse CPU information:" >> myfile
echo "-----" >> myfile
cat /proc/cpuinfo >> myfile
echo "-----" >> myfile
echo "Computer Memory information:" >> myfile
echo "-----" >> myfile
cat /proc/meminfo >> myfile
if [-d /proc/ide/hda]
then
echo "-----" >> myfile
echo "Hard disk information:" >> myfile
echo "-----" >> myfile
echo "Model: `cat /proc/ide/hda/model`" >> myfile
echo "Driver: `cat /proc/ide/hda/driver`" >> myfile
echo "Cache size: `cat /proc/ide/hda/cache`" >> myfile
fi
echo "-----" >> myfile
echo "File System (Mount):" >> myfile
echo "-----" >> myfile
cat /proc/mounts >> myfile
```

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#

end of script

RESULT :-

Thus the shell program to show various system configurations was successfully executed and verified.