## Assignment: Lab 9: Scripting and Scheduling Tasks

## Return 1:

```
manish@rhel01:/var/log
# Collect disk usage stats every hour (10th minute) for the root file system
     * * * root /usr/sbin/lab9.sh
"/etc/cron.d/lab9" 6L, 115C
                                                                            All
                                                             6,0-1
 2
                                 manish@rhel01:~
                                                                              ×
File Edit View Search Terminal Help
#!/bin/bash
var=$(df -h | grep root)
device=$(echo $var | awk '{print $1}')
mountp=$(echo $var | awk '{print $6}')
uspace=$(echo $var | awk '{print $3}')
avspace=$(echo $var | awk '{print $4}')
echo "$(date +%H.%M):${device}:${mountp}:${uspace}:${avspace}"\
        >> /var/log/diskuse.log 2>> /var/log/diskuse errors.log
"/usr/sbin/lab9.sh" 12L, 326C
                                                                           All
                                                             12,0-1
```

## The log file works nicely. (configured it to run every minute for testing purpose.)

```
manish@rhel01:~

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[manish@rhel01 ~]$ sudo cat /var/log/diskuse.log

12.49:/dev/mapper/rhel_rhel01-root:/:5.9G:12G

12.50:/dev/mapper/rhel_rhel01-root:/:5.9G:12G

[manish@rhel01 ~]$
```

## Return 2:

```
2
                                       manish@rhel01:/var/log
 File Edit View Search Terminal Help
#!/bin/bash
var=$(df -h | grep '/$')
device=$(echo $var | awk '{print $1}')
mountp=$(echo $var | awk '{print $6}')
uspace=$(echo $var | awk '{print $3}')
avspace=$(echo $var | awk '{print $4}')
echo "[$(date +%H.%M)]:[${device}]:[${mountp}]:[${uspace}]:[${avspace}]"\
         >> /var/log/diskuse.log 2>> /var/log/diskuse_errors.log
usage=$(echo $var | awk '{print $5}')
check=$(echo $usage | sed 's/%//')
if [ $check -ge 10 ]
then
         find / -xdev -type f -size +10M -exec ls -lah {} \; 2> /dev/null | sort -rn -k 5
 | head -10 >> /var/log/largefiles.log 2>> /var/log/largefiles error.log
fi
                                                                                            All
"/usr/sbin/lab9.sh" 20L, 596C
                                                                            18,51-58
```

## ## Test for /var/log/largefiles.log

```
2
                                         manish@rhel01:/var/log
                                                                                                    ×
File Edit View Search Terminal Help
[manish@rhel01 log]$ cat /var/log/largefiles.log
-rw-r--r-. 1 root root 162M Mar 27 16:40 /var/cache/PackageKit/8.5/metadata/rhel-8-for-x8
6_64-baseos-rpms-8-x86_64/packages/linux-firmware-20210702-104.gitd79c2677.el8_5.noarch.rp
-rwxr-xr-x. 1 root root 138M Oct 4 2021 /usr/lib64/firefox/libxul.so
rw-r--r--. 1 root root 112M Apr 16 17:31 /var/lib/rpm/Packages
rw-r--r-. 1 root root 107M Mar 27 16:39 /var/cache/PackageKit/8.5/metadata/rhel-8-for-x8-
6_64-appstream-rpms-8-x86_64/packages/firefox-91.7.0-3.el8_5.x86_64.rpm
rwxr-xr-x. 1 root root 85M Sep 3 2021 /usr/lib64/libLLVM-12.so
-rwxr-xr-x. 1 root root 56M Sep 28 2021 /usr/lib64/libwebkit2gtk-4.0.so.37.53.4
-rw-r--r-. 1 root root 54M Jun 8 2018 /usr/share/GeoIP/GeoLite2-City.mmdb
-rwxr-xr-x. 1 root root 48M Sep 21 2021 /usr/bin/podman
-rw-r--r-. 1 root root 41M Oct 4 2021 /usr/lib64/firefox/browser/omni.ja
-rw-r--r-. 1 root root 38M Mar 27 16:40 /var/cache/PackageKit/8.5/metadata/rhel-8-for-x86
 64-baseos-rpms-8-x86 64/packages/kernel-core-4.18.0-348.20.1.el8 5.x86 64.rpm
[manish@rhel01 log]$
```