1. cksum securecopy.txt and save the output as screen shot.

```
[root@f6e68b1c4701 /]# cksum ~/mydir/securecopy.txt
2768876939 488142 /root/mydir/securecopy.txt
[root@f6e68b1c4701 /]#
```

2. open ~/mydir/securecopy.txt with nano OR vim editor and replace all "root" keywords with yourname and exit the nano.

```
  GNU nano 2.9.8                                                    /root/mydir/securecopy.txt

14:16:33,622 NOTICE kernel:Linux version 4.18.0-305.3.1.el8.x86_64 (mockbuild@kbuilder.bsys.centos.org) (gcc version 8.4.1 20200928 (Red Hat 8.4.1-1) (GCC)) #1 SMP Tue Jun 1 16:14:33 UTC 2021
14:16:33,622 INFO kernel:Command line: method=http://qa.centos.org/centos/8/BaseOS/x86_64/kickstart/ ks=file:/ks.cfg
14:16:33,622 INFO kernel:x86/fpu: x87 FPU will use FXSAVE
14:16:33,622 INFO kernel:BIOS-provided physical RAM map:
14:16:33,622 INFO kernel:BIOS-e820: [mem 0x0000000000000000-0x000000000009fbff] usable
14:16:33,622 INFO kernel:BIOS-e820: [mem 0x000000000009fc00-0x00000000000fffff] reserved
14:16:33,622 INFO kernel:BIOS-e820: [mem 0x00000000000f0000-0x00000000000fffff] reserved
14:16:33,622 INFO kernel:BIOS-e820: [mem 0x0000000000100000-0x00000000bfff9fff] usable
14:16:33,622 INFO kernel:BIOS-e820: [mem 0x00000000bfffa000-0x00000000bfffffff] reserved
14:16:33,622 INFO kernel:BIOS-e820: [mem 0x00000000feffc000-0x00000000feffffff] reserved
14:16:33,622 INFO kernel:BIOS-e820: [mem 0x00000000fffc0000-0x00000000ffffffff] reserved
14:16:33,622 INFO kernel:BIOS-e820: [mem 0x0000000100000000-0x0000000013ffffff] usable
14:16:33,622 INFO kernel:NX (Execute Disable) protection: active
14:16:33,622 INFO kernel:SMBIOS 2.4 present.
14:16:33,622 INFO kernel:DMI: Red Hat KVM, BIOS 0.5.1 01/01/2011
14:16:33,622 INFO kernel:Hypervisor detected: KVM
14:16:33,622 INFO kernel:kvm-clock: Using msrs 4b564d01 and 4b564d00
14:16:33,622 INFO kernel:kvm-clock: cpu 0, msr 5e601001, primary cpu clock
14:16:33,622 INFO kernel:kvm-clock: using sched offset of 2702134690 cycles
14:16:33,622 INFO kernel:clocksource: kvm-clock: mask: 0xffffffffffffffff max_cycles: 0x1cd42e4dffb, max_idle_ns: 881590591483 ns
14:16:33,622 INFO kernel:tsc: Detected 2199.996 MHz processor
14:16:33,622 DEBUG kernel:e820: update [mem 0x00000000-0x00000fff] usable ==> reserved
14:16:33,622 DEBUG kernel:e820: remove [mem 0x000a0000-0x000fffff] usable
14:16:33,622 INFO kernel:last_pfn = 0x140000 max_arch_pfn = 0x400000000
14:16:33,622 DEBUG kernel:MTRR default type: write-back
14:16:33,622 DEBUG kernel:MTRR fixed ranges enabled:
14:16:33,622 DEBUG kernel:  00000-9FFFF write-back
14:16:33,622 DEBUG kernel:  A0000-BFFFF uncachable
14:16:33,622 DEBUG kernel:  C0000-FFFFF write-protect
14:16:33,623 DEBUG kernel:MTRR variable ranges enabled:
14:16:33,623 DEBUG kernel:  0 base 0000C0000000 mask 3FFFC0000000 uncachable
14:16:33,623 DEBUG kernel:  1 disabled
14:16:33,623 DEBUG kernel:  2 disabled
14:16:33,623 DEBUG kernel:  3 disabled
14:16:33,623 DEBUG kernel:  4 disabled
14:16:33,623 DEBUG kernel:  5 disabled
14:16:33,623 DEBUG kernel:  6 disabled
14:16:33,623 DEBUG kernel:  7 disabled
14:16:33,623 INFO kernel:x86/PAT: PAT not supported by CPU.
14:16:33,623 INFO kernel:x86/PAT: Configuration [0-7]: WB  WT  UC- UC  WB  WT  UC- UC
14:16:33,623 INFO kernel:last_pfn = 0xbfffa max_arch_pfn = 0x400000000
14:16:33,623 INFO kernel:found SMP MP-table at [mem 0x000f6360-0x000f636f]
14:16:33,623 DEBUG kernel:BRK [0x5e801000, 0x5e801fff] PGTABLE
14:16:33,623 DEBUG kernel:BRK [0x5e802000, 0x5e802fff] PGTABLE
14:16:33,623 DEBUG kernel:BRK [0x5e803000, 0x5e803fff] PGTABLE
14:16:33,623 DEBUG kernel:BRK [0x5e804000, 0x5e804fff] PGTABLE
14:16:33,623 DEBUG kernel:BRK [0x5e805000, 0x5e805fff] PGTABLE
14:16:33,623 INFO kernel:RAMDISK: [mem 0x7b81c000-0x7fffffff]
14:16:33,623 INFO kernel:ACPI: Early table checksum verification disabled
14:16:33,623 INFO kernel:ACPI: RSDP 0x00000000000F6110 000014 (v00 BOCHS )
14:16:33,623 INFO kernel:ACPI: RSDT 0x00000000BFFFFC12 000030 (v01 BOCHS  BXPCRSDT 00000001 BXPC 00000001)
14:16:33,623 INFO kernel:ACPI: FACP 0x00000000BFFFF177 000074 (v01 BOCHS  BXPCFACP 00000001 BXPC 00000001)
14:16:33,623 INFO kernel:ACPI: DSDT 0x00000000BFFFE040 001137 (v01 BOCHS  BXPCDSDT 00000001 BXPC 00000001)
14:16:33,623 INFO kernel:ACPI: FACS 0x00000000BFFFE000 000040
14:16:33,623 INFO kernel:ACPI: SSDT 0x00000000BFFFF1EB 000997 (v01 BOCHS  BXPCSSDT 00000001 BXPC 00000001)
14:16:33,623 INFO kernel:ACPI: APIC 0x00000000BFFFFB82 000090 (v01 BOCHS  BXPCAPIC 00000001 BXPC 00000001)
14:16:33,623 DEBUG kernel:ACPI: Local APIC address 0xfee00000
14:16:33,623 INFO kernel:No NUMA configuration found

^G Get Help   ^O Write Out  ^W Where Is   ^K Cut Text   ^J Justify    ^C Cur Pos    M-U Undo      M-A Mark Text   M-] To Bracket  M-◄ Previous   ^B Back       ^← Prev Word
^X Exit       ^R Read File  ^\ Replace    ^U Uncut Text ^T To Spell   ^_ Go To Line M-E Redo      M-6 Copy Text   M-W WhereIs Next M-► Next      ^F Forward    ^→ Next Word
```

```
[root@f6e68b1c4701 /]# cksum ~/mydir/securecopy.txt
2766876939 488142 /root/mydir/securecopy.txt
[root@f6e68b1c4701 /]# nano ~/mydir/securecopy.txt
[root@f6e68b1c4701 /]# cksum ~/mydir/securecopy.txt
3002621955 489220 /root/mydir/securecopy.txt
[root@f6e68b1c4701 /]#
```

3. use the find command to find yourname.txt in your environment and save the output as screen shot.

```
[root@f6e68b1c4701 /]# find .. -name "Saraamukhaild.txt"
../root/mydir/mydir2/Saraamukhaild.txt
[root@f6e68b1c4701 /]#
```

4. Use man page with the "useradd" command and save the output in "useradd-man.txt" using what you have learned in "stdin/stdout" lesson, then grep the word "password" from the "useradd-man.txt" you have created and take a screen shot for the grep output.

```
[root@f6e68b1c4701 /]# man useradd > useradd-man.txt
[root@f6e68b1c4701 /]# grep "password" useradd-man.txt
        The number of days after a password expires until the account is
        the password has expired, and a value of -1 disables the feature.
        account to turn off password aging, even though system account has
        no password at all. Multiple -K options can be specified, e.g.:
    -p, --password PASSWORD
        The encrypted password, as returned by crypt(3). The default is to
        disable the password.
        Note: This option is not recommended because the password (or
        encrypted password) will be visible by users listing the processes.
        You should make sure the password respects the system's password
        The number of days after a password has expired before the account
        same password, and same GID).
        The maximum number of days a password may be used. If the password
        is older than this, a password change will be forced. If not
        The minimum number of days allowed between password changes. Any
        password changes attempted sooner than this will be rejected. If
        The number of days warning given before a password expires. A zero
        Shadow password suite configuration.
        can't update password file
[root@f6e68b1c4701 /]#
```

5. use the diff command on /var/log/anaconda/syslog and ~/mydir/securecopy.txt file and save the output as screen shot

```
[root@f6e68b1c4701 /]# diff /var/log/anaconda/syslog ~/mydir/securecopy.txt
208c208
< 14:16:33,624 INFO kernel:ACPI: PCI Root Bridge [PCI0] (domain 0000 [bus 00-ff])
---
> 14:16:33,624 INFO kernel:ACPI: PCI Sara Almukhaild Bridge [PCI0] (domain 0000 [bus 00-ff])
241,245c241,245
< 14:16:33,630 INFO kernel:pci_bus 0000:00: root bus resource [io  0x0000-0x0cf7 window]
< 14:16:33,630 INFO kernel:pci_bus 0000:00: root bus resource [io  0x0d00-0xffff window]
< 14:16:33,630 INFO kernel:pci_bus 0000:00: root bus resource [mem 0x000a0000-0x000bffff window]
< 14:16:33,630 INFO kernel:pci_bus 0000:00: root bus resource [mem 0xc0000000-0xfebfffff window]
< 14:16:33,630 INFO kernel:pci_bus 0000:00: root bus resource [bus 00-ff]
---
> 14:16:33,630 INFO kernel:pci_bus 0000:00: Sara Almukhaild bus resource [io  0x0000-0x0cf7 window]
> 14:16:33,630 INFO kernel:pci_bus 0000:00: Sara Almukhaild bus resource [io  0x0d00-0xffff window]
> 14:16:33,630 INFO kernel:pci_bus 0000:00: Sara Almukhaild bus resource [mem 0x000a0000-0x000bffff window]
> 14:16:33,630 INFO kernel:pci_bus 0000:00: Sara Almukhaild bus resource [mem 0xc0000000-0xfebfffff window]
> 14:16:33,630 INFO kernel:pci_bus 0000:00: Sara Almukhaild bus resource [bus 00-ff]
448c448
< 14:16:33,659 INFO systemd:Reached target Initrd Root Device.
---
> 14:16:33,659 INFO systemd:Reached target Initrd Sara Almukhaild Device.
519c519
< 14:16:38,726 WARNING rpc.statd:Running as root.  chown /var/lib/nfs/statd to choose different user
---
> 14:16:38,726 WARNING rpc.statd:Running as Sara Almukhaild.  chown /var/lib/nfs/statd to choose different user
584c584
< 14:16:39,385 INFO NetworkManager:<info>  [1631715399.3855] auth[0x557aa18666a0]: create auth-manager: D-Bus connection not available. Polkit is disabled and only root will be authorized.
---
> 14:16:39,385 INFO NetworkManager:<info>  [1631715399.3855] auth[0x557aa18666a0]: create auth-manager: D-Bus connection not available. Polkit is disabled and only Sara Almukhaild will be authorized.
645,646c645,646
< 14:16:49,128 INFO systemd:Reached target Initrd Root File System.
< 14:16:49,128 INFO systemd:Starting Reload Configuration from the Real Root...
---
> 14:16:49,128 INFO systemd:Reached target Initrd Sara Almukhaild File System.
> 14:16:49,128 INFO systemd:Starting Reload Configuration from the Real Sara Almukhaild...
649c649
< 14:16:49,216 INFO systemd:Started Reload Configuration from the Real Root.
---
> 14:16:49,216 INFO systemd:Started Reload Configuration from the Real Sara Almukhaild.
662c662
< 14:16:50,382 INFO systemd:Starting Plymouth switch root service...
---
> 14:16:50,382 INFO systemd:Starting Plymouth switch Sara Almukhaild service...
669c669
< 14:16:50,384 INFO systemd:Stopped target Initrd Root Device.
---
> 14:16:50,384 INFO systemd:Stopped target Initrd Sara Almukhaild Device.
691c691
< 14:16:50,394 INFO systemd:Started Plymouth switch root service.
---
> 14:16:50,394 INFO systemd:Started Plymouth switch Sara Almukhaild service.
737,739c737,739
< 14:16:50,438 INFO systemd:Reached target Switch Root.
< 14:16:50,439 INFO systemd:Starting Switch Root...
< 14:16:50,449 NOTICE systemd:Switching root.
---
> 14:16:50,438 INFO systemd:Reached target Switch Sara Almukhaild.
> 14:16:50,439 INFO systemd:Starting Switch Sara Almukhaild...
> 14:16:50,449 NOTICE systemd:Switching Sara Almukhaild.
755,756c755,756
< 14:16:52,110 INFO systemd:initrd-switch-root.service: Succeeded.
< 14:16:52,110 INFO systemd:Stopped Switch Root.
---
```