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Midterm Spring 2021

Question 1

• I, believe it is a good idea to migrate to Ubuntu instead of upgrading windows and buying new hardware because Ubuntu just has so much to offer. You can download and install Ubuntu for free. All future upgrades are free and are installed automatically. Ubuntu has their own version of Microsoft Office called Open Office which is preinstalled at no cost. You do not have to buy expensive hardware and you will be generally free from viruses compared to Windows who needs antivirus. Ubuntu comes with a free long term support and high customization. Besides the fact that you will save money in a matter of ways you would continue to support Ubuntu whose philosophy is "Every computer user should have the freedom to download, run, copy, distribute, study, share, change and improve their software for any purpose, without paying licensing fees."

```
mcgarcia13701@mcgarcia13701-VirtualBox
       $cd ~/midtermS21/question2
    mcgarcia13701@mcgarcia13701-VirtualBox
       $mkdir -p fall-2021/{CIS108,EN102,BU101,CIS125}/{assignments,extramat,notes}
    mcgarcia13701@mcgarcia13701-VirtualBox |-[~/midtermS21/question2
       $tree
            notes
17 directories, 0 files
    mcgarcia13701@mcgarcia13701-VirtualBox]-[~/midtermS21/question2]
   mcgarcia13701@mcgarcia13701-VirtualBox
mcgarcta13701@mcgarcta13701-VirtualBox = -/mldterm521/question2.tar

-swget https://robertalberto.com/cis106/midtermfiles/question2.tar

--2021-04-28 22:21:08-- https://robertalberto.com/cis106/midtermfiles/question2.tar

Resolving robertalberto.com (robertalberto.com)... 34.66.0.162

Connecting to robertalberto.com (robertalberto.com)|34.66.0.162|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 20480 (20K) [application/x-tar]

Saving to: 'question2.tar'
                                        100%[=======] 20.00K 97.9KB/s
                                                                                                                                                   in 0.2s
2021-04-28 22:21:09 (97.9 KB/s) - 'question2.tar' saved [20480/20480]
   mcgarcia13701@mcgarcia13701-VirtualBox
      star -xf question2.tar
   mcgarcia13701@mcgarcia13701-VirtualBox
   mcgarcia13701@mcgarcia13701-VirtualBox]—[~/midtermS21/question2]
      $cd question2
   mcgarcia13701@mcgarcia13701-VirtualBox - (~/midtermS21/question2/question2
bu101_all_assignments.txt cis108_all_assignments.txt cis125_all_assignments.txt en102_all_assignments.txt
bu101book.pdf
bu101notes.md
                                                                                               en102book.pdf
en102notes.md
                              cis108book.pdf
                                                               cis125book.pdf
                              cis108notes.md
                                                               cis125notes.md
bu101syllabus.docx
                              cis108syllabus.docx
                                                               cis125syllabus.docx
                                                                                               en102syllabus.docx
   mcgarcia13701@mcgarcia13701-VirtualBox
       [mcgarcia13701@mcgarcia13701-VirtualBox]
bu101_all_assignments.txt cis108_all_assignments.txt cis125_all_assignments.txt en102_all_assignments.txt
                                                                   cis125book.pdf
bu101book.pdf
                                 cis108book.pdf
                                                                                                     en102book.pdf
bu101notes.md
                                cis108notes.md
                                                                   cis125notes.md
                                                                                                     en102notes.md
bu101syllabus.docx
                                                                   cis125syllabus.docx
                                cis108syllabus.docx
                                                                                                     en102svllabus.docx
   mcgarcia13701@mcgarcia13701-VirtualBox
      mv bu101* ~/midtermS21/question2/fall-2021/BU101/
   mcgarcia13701@mcgarcia13701-VirtualBox = [~/midterms21/c
- $mv cis108* ~/midterms21/question2/fall-2021/CIS108/
   mcgarcia13701@mcgarcia13701-VirtualBox
      mv cis125* ~/midtermS21/question2/fall-2021/CIS125/
   mcgarcia13701@mcgarcia13701-VirtualBox
   smv en102* ~/midtermS21/question2/fall-2021/EN102/
mcgarcia13701@mcgarcia13701-VirtualBox //midtermS2
      $cd ~/midtermS21/question2/fall-2021/BU101
   mcgarcia13701@mcgarcia13701-VirtualBox
               bu101_all_assignments.txt bu101book.pdf bu101notes.md bu101syllabus.docx extramat notes
   mcgarcia13701@mcgarcia13701-VirtualBox
       mv *.txt assignments
```

```
]—[mcgarcia13701@mcgarcia13701-VirtualBox
$mv *.pdf *.docx extramat
   mcgarcia13701@mcgarcia13701-VirtualBox
      mv *.md notes
   mcgarcia13701@mcgarcia13701-VirtualBox
      cd ~/midtermS21/question2/fall-2021/CIS108
   mcgarcia13701@mcgarcia13701-VirtualBox
               cis108_all_assignments.txt cis108book.pdf cis108notes.md cis108syllabus.docx extramat notes
   mcgarcia13701@mcgarcia13701-VirtualBox | ~/midtermS21/question2/fall-2021/CIS10
     $mv *.txt assignments
   mcgarcia13701@mcgarcia13701-VirtualBox
   smv *.pdf *.docx extramat
mcgarcia13701@mcgarcia13701-VirtualBox
      Smv *.md notes
   mcgarcia13701@mcgarcia13701-VirtualBox | ~/mi
- $cd ~/midtermS21/question2/fall-2021/CIS125
   mcgarcia13701@mcgarcia13701-VirtualBox
     $ls
   ignments cis125_all_assignments.txt cis125book.pdf cis125notes.md cis125syllabus.docx extramat notes
mcqarcia13701@mcqarcia13701-VirtualBox_ri~/midtermS21/question2/fall-2021/CIS1251
     $mv *.txt assignments
   mcgarcia13701@mcgarcia13701-VirtualBox
- $mv *.pdf *.docx extramat
   mcgarcia13701@mcgarcia13701-VirtualBox
- $mv *.md notes
   mcgarcia13701@mcgarcia13701-VirtualBox
    mcgarcia13701@mcgarcia13701-VirtualBox
       $mv *.txt assignments
    mcgarcia13701@mcgarcia13701-VirtualBox
       mv *.pdf *.docx extramat
    mcgarcia13701@mcgarcia13701-VirtualBox
       $mv *.md notes
   mcgarcia13701@mcgarcia13701-VirtualBox
       scd ~/midtermS21/question2/fall-2021/EN102
   mcgarcia13701@mcgarcia13701-VirtualBox
      $ls
                 en102_all_assignments.txt en102book.pdf en102notes.md en102syllabus.docx extramat notes
    mcgarcia13701@mcgarcia13701-VirtualBox
       5mv *.txt assignments
   mcgarcia13701@mcgarcia13701-VirtualBox
-- $mv *.pdf *.docx extramat
    mcgarcia13701@mcgarcia13701-VirtualBox
        mv *.md notes
    mcgarcia13701@mcgarcia13701-VirtualBox
       $cd ../
   mcgarcia13701@mcgarcia13701-VirtualBox
       Stree -hp
     [drwxrwxr-x 4.0K] BU101
           [drwxrwxr-x 4.0K] assign
                                   [106] bu101_all_assignments.txt
                [-rw-rw-r--
           [drwxrwxr-x 4.0K]
                                    88]
                                            bu101book.pdf
                 [-rw-rw-r-- 88] bu101book.pur
[-rw-rw-r-- 71] bu101syllabus.docx
           [drwxrwxr-x 4.0K]
   mcgarcia13701@mcgarcia13701-VirtualBox
  mcgarcia13701@mcgarcia13701-VirtualBox |-[~/midtermS21/question2/fall-2021]

— $tree -hp
    [drwxrwxr-x 4.0K] BU3

— [drwxrwxr-x 4.0K]

— [-rw-rw-r-- 1

— [drwxrwxr-x 4.0K]
                         106] bu101_all_assignments.txt
       [-rw-rw-r--
[-rw-rw-r--
[drwxrwxr-x 4.0K]
                              bu101book.pdf
bu101syllabus.docx
    [drwxrwxr-x 4.0K] CIS
                         104] bu101notes.md
       [drwxrwxr-x 4.0K]
[-rw-rw-r- 1
[-rw-rw-r- 4.0K]
[-rw-rw-r- 1
                          56] cis108_all_assignments.txt
                         101] cis108book.pdf
70] cis108syllabus.docx
    [drwxrwxr-x 4.0K] [drwxrwxr-x 4.0K]
                          52] cis108notes.md
                          59] cis125_all_assignments.txt
        L [-rw-rw-r--
[drwxrwxr-x 4.0K]
                          90] cis125book.pdf
79] cis125syllabus.docx
       [-rw-rw-r--
[-rw-rw-r--
[drwxrwxr-x 4.0K]
    - [-rw-rw-r---
[drwxrwxr-x 4.0K] EN3
- [drwxrwxr-x 4.0K]
                          86] cis125notes.md
       [-rw-rw-r-- 1

[-rw-rw-r-- 1

[-rw-rw-r-- 1

[-rw-rw-r-- 1

[-rw-rw-r-- 1
                          45] en102_all_assignments.txt
                         142] en102book.pdf
85] en102syllabus.docx
                          691 en102notes.md
16 directories, 16 files

__mcgarcia13701@mcgarcia13701-VirtualBox
```

```
mcgarcia13701@mcgarcia13701-VirtualBox
     $mkdir -p carCompany/{sql,html,js,css}
  mcgarcla13701@mcgarcla13701-VirtualBox | ~ / midtermS21/question3 |
     $cd carCompany
  mcqarcia13701@mcqarcia13701-VirtualBox | ~ /midtermS21/question3/carCompany
     $ls
    ]-[mcgarcia13701@mcgarcia13701-VirtualBox
     $touch ~/midtermS21/question3/carCompany/sql/{script1.sql,script2.sql}
   ]-[mcgarcia13701@mcgarcia13701-VirtualBox --[~/midtermS21/question3/carComp
     $touch ~/midtermS21/question3/carCompany/html/{home.html,contac.html,products.html}
   mcgarcia13701@mcgarcia13701-VirtualBox
    $touch ~/midtermS21/question3/carCompany/css/{base.css,reset.css}
   mcgarcia13701@mcgarcia13701-VirtualBox
    $touch ~/midtermS21/question3/carCompany/js/{slide.js,loader.js,script.js}
   mcgarcia13701@mcgarcia13701-VirtualBox]-[~/midtermS21/question3/carCompany
     $ls -hrRgG
total 16K
drwxrwxr-x 2 4.0K Apr 29 00:29 sql
drwxrwxr-x 2 4.0K Apr 29 00:32 js
drwxrwxr-x 2 4.0K Apr 29 00:31 html
drwxrwxr-x 2 4.0K Apr 29 00:31 css
./sql:
total 0
-rw-rw-r-- 1 0 Apr 29 00:29 script2.sql
-rw-rw-r-- 1 0 Apr 29 00:29 script1.sql
./js:
total 0
-rw-rw-r-- 1 0 Apr 29 00:32 slide.js
-rw-rw-r-- 1 0 Apr 29 00:32 script.js
-rw-rw-r-- 1 0 Apr 29 00:32 loader.js
./html:
total 0
-rw-rw-r-- 1 0 Apr 29 00:31 products.html
```

```
mcgarcia13701@mcgarcia13701-VirtualBox - ~/midtermS21/question3/carCompany
         $ls -hrRgG
 total 16K
drwxrwxr-x 2 4.0K Apr 29 00:29 sql
drwxrwxr-x 2 4.0K Apr 29 00:32 js
drwxrwxr-x 2 4.0K Apr 29 00:31 html
drwxrwxr-x 2 4.0K Apr 29 00:31 css
  ./sql:
 total 0
 -rw-rw-r-- 1 0 Apr 29 00:29 script2.sql
-rw-rw-r-- 1 0 Apr 29 00:29 script1.sql
 ./js:
total 0
 -rw-rw-r-- 1 0 Apr 29 00:32 slide.js
-rw-rw-r-- 1 0 Apr 29 00:32 script.js
-rw-rw-r-- 1 0 Apr 29 00:32 loader.js
 ./html:
 total 0
 -rw-rw-r-- 1 0 Apr 29 00:31 products.html
-rw-rw-r-- 1 0 Apr 29 00:31 home.html
-rw-rw-r-- 1 0 Apr 29 00:31 contac.html
 total 0
 -rw-rw-r-- 1 0 Apr 29 00:31 reset.css
-rw-rw-r-- 1 0 Apr 29 00:31 base.css
     mcgarcia13701@mcgarcia13701-VirtualBox
      mcgarcia13701@mcgarcia13701-VirtualBox
          $ls
      mcgarcia13701@mcgarcia13701-VirtualBox
           $tar cfz carCompany.tar.gz carCompany/
      mcgarcia13701@mcgarcia13701-VirtualBox |-[~/midtermS21/question3
$tar tf carCompany.tar.gz
carCompany/
carCompany/sql/
carCompany/sql/script2.sql
carCompany/sql/script1.sql
carCompany/html/
carCompany/html/home.html
carCompany/html/products.html
carCompany/html/contac.html
carCompany/js/
carCompany/js/slide.js
carCompany/js/script.js
carCompany/js/script.js
carCompany/js/script.js
carCompany/css/
carCompany/css/
carCompany/css/
          $tar tf carCompany.tar.gz
 carCompany/css/reset.css
      mcgarcia13701@mcgarcia13701-VirtualBox
          $mv carCompany.tar.gz ~/Documents
      mcgarcia13701@mcgarcia13701-VirtualBox
         $rm -r carCompany
      mcgarcia13701@mcgarcia13701-VirtualBox
           $ls
      mcgarcia13701@mcgarcia13701-VirtualBox
```

```
mcgarcia13701@mcgarcia13701-VirtualBox
      $wget https://robertalberto.com/cis106/midtermfiles/maria-colleage-files.tar.xz
--2021-04-29 12:00:09-- https://robertalberto.com/cis106/midtermfiles/maria-colleage-files.tar.xz
Resolving robertalberto.com (robertalberto.com)... 34.66.0.162
Connecting to robertalberto.com (robertalberto.com)|34.66.0.162|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 27287876 (26M) [application/x-xz]
Saving to: 'maria-colleage-files.tar.xz
2021-04-29 12:00:24 (1.74 MB/s) - 'maria-colleage-files.tar.xz' saved [27287876/27287876]
     $ xz -dkc <maria-colleage-files.tar.xz> maria-colleage-files.tar
   mcgarcia13701@mcgarcia13701-VirtualBox
— $tar -xf maria-colleage-files.tar
   mcgarcia13701@mcgarcia13701-VirtualBox
   mcgarcia13701@mcgarcia13701-VirtualBox
  $fm maria-colleage-files.tar maria-colleage-files.tar.xz
mcgarcia13701@mcgarcia13701-VirtualBox = /midterm521/quest
$ls -lXh maria-colleage-files >> all-files-org.md
   mcgarcial3/01@mcgarcial3701-VirtualBox = ~/midterm521/question4

— $cd maria-colleage-files

mcgarcial3701@mcgarcial3701-VirtualBox = -~/midterm521/question4/maria-colleage-files
                     email.docx grades.xls motog.jpg
expenses.xls iphone.ina
calculator.exe
                     email.docx
                                                                                                 site.html
                                                                                                                      videos.html
                                                                             program.exe
                                                                                                  spreadsheets.xls wiki.html
code.pdf
communication.docx galaxy.jpg laundry.txt pccc-aasprogram.pdf pyramid.docx
documentation.pdf game.exe mealplan.txt pccc-logo.png shoppinglist
                                                                                                 students.xls
   mcgarcia13701@mcgarcia13701-VirtualBox |-[~/midtermS21/question4/maria-colleage-files]
   - $mkdir -p {Docs,Photos,Web,Exe}
mcgarcia13701@mcgarcia13701-VirtualBox
      mv *.pdf *.txt *.xls *.docx Docs
  mcgarcia13701@mcgarcia13701-VirtualBox

— $mv *.jpg *.png Photos

mcgarcia13701@mcgarcia13701-VirtualBox

— $mv *.html Web
   mcgarcia13701@mcgarcia13701-VirtualBox
      mv *.exe Exe
   mcgarcia13701@mcgarcia13701-VirtualBox
    mcgarcia13701@mcgarcia13701-VirtualBox
       $tree >> ~/midtermS21/question4/all-files-org.md
    mcgarcia13701@mcgarcia13701-VirtualBox - ~/midtermS21/question4/maria-colleage-files
       $tree
         code.pdf
        — communication.docx
          documentation.pdf
          email.docx
          expenses.xls
           grades.xls
           laundry.txt
          mealplan.txt
           pccc-aasprogram.pdf
           pyramid.docx
           shoppinglist.txt
           spreadsheets.xls
           students.xls
```

```
mcgarcia13701@mcgarcia13701-VirtualBox
       $tree
         code.pdf

    communication.docx

           documentation.pdf

    email.docx

         expenses.xls
         — grades.xls
— laundry.txt
           mealplan.txt

    pccc-aasprogram.pdf

         pyramid.docx
           shoppinglist.txt
           spreadsheets.xls
           students.xls

    calculator.exe

         game.exe
           program.exe
          site.html
         videos.html
         wiki.html
4 directories, 26 files
  directories, 26 files
    mcgarcia13701@mcgarcia13701-VirtualBox
       $tar cf all-files.tar *
    mcgarcia13701@mcgarcia13701-VirtualBox
       $ls
    mcgarcia13701@mcgarcia13701-VirtualBox
       $gzip all-files.tar
    mcgarcia13701@mcgarcia13701-VirtualBox
    mcgarcia13701@mcgarcia13701-VirtualBox
   mcgarcia13701@mcgarcia13701-VirtualBox — /midtermS21/question4/maria-collea
- $tar tf all-files.tar.gz && ls -sh ~/midtermS21/question4/all-files-org.md
ocs/spreadsheets.xls
Docs/expenses.xls
Docs/mealplan.txt
ocs/pccc-aasprogram.pdf
ocs/grades.xls
Docs/laundry.txt
Docs/communication.docx
Docs/students.xls
Docs/code.pdf
Docs/documentation.pdf
Docs/email.docx
Docs/shoppinglist.txt
Docs/pyramid.docx
Exe/
Exe/calculator.exe
Exe/game.exe
xe/program.exe
Photos/
Photos/
Photos/venezuela.png
Photos/iphone.jpg
Photos/panama.png
Photos/motog.jpg
Photos/puertorico.png
Photos/galaxy.jpg
Photos/pccc-logo.png
leb/
 eb/videos.html
Web/site.html
Web/wiki.html
4.0K /home/mcgarcia13701/midtermS21/question4/all-files-org.md
mcgarcia13701@mcgarcia13701-VirtualBox //midtermS21/questi
```

```
arcia13701@mcgarcia13701-VirtualBox = ~/midterm521/question5
wget https://robertalberto.com/cis106/midtermfiles/samplesite2.tar.gz
  Sweet https://robertalberto.com/cis106/MioterMrites/Samplesite2.tar.gz

-2021-04-29 17:36:04-- https://robertalberto.com/cis106/midtermfiles/samplesite2.tar.gz

Resolving robertalberto.com (robertalberto.com)... 34.66.0.162

Connecting to robertalberto.com (robertalberto.com)|34.66.0.162|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 1202054 (1.1M) [application/x-gzip]

Saving to: 'samplesite2.tar.gz'
     2021-04-29 17:36:06 (1.08 MB/s) - 'samplesite2.tar.gz' saved [1202054/1202054]
             mcgarcia13701@mcgarcia13701-VirtualBox |--|-/midtermS21/questionS
-- $sudo apt install apache2
    [sudo] password for mcgarcia13/01:
Reading package lists... Done
 Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
apport-symptoms guile-2.2-1ibs libevent-2.1-7 libgc1c2 libgnome-games-support-1-3 libgnome-games-support-common libnatpmp1 libqqwing2v5
linux-headers-5.8.0-45-generic linux-hwe-5.8-headers-5.8.0-45 linux-image-5.8.0-45-generic linux-modules-5.8.0-45-generic
linux-modules-extra-5.8.0-45-generic python3-systemd
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
apache2-data apache2-utils
Suggested packages.
 apache2-data apache2-utils
Suggested packages:
apache2-doc apache2-suexec-pristine | apache2-suexec-custom
The following NEW packages will be installed:
apache2-data apache2-data apache2-utils
0 upgraded, 3 newly installed, 0 to remove and 94 not upgraded.
Need to get 338 kB of archives.
After this operation, 1,815 kB of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 http://us.archive.ubuntu.com/ubuntu focal-updates/main amd64 apache2-data all 2.4.41-4ubuntu3.1 [158 kB]
Do you want to continue: [Y/n] reference: [Y/n] you want to continue: [Y/n] you want to continue in the provided apache2-data all 2.4.41-4ubuntu3.1 [158 kB] Get:2 http://us.archive.ubuntu.com/ubuntu focal-updates/main amd64 apache2 amd64 2.4.41-4ubuntu3.1 [83.8 kB] Get:3 http://us.archive.ubuntu.com/ubuntu focal-updates/main amd64 apache2 amd64 2.4.41-4ubuntu3.1 [95.5 kB] Fetched 338 kB in 1s (647 kB/s)
Selecting previously unselected package apache2-data.
(Reading database ... 264819 files and directories currently installed.)
Preparing to unpack .../apache2-data_2.4.41-4ubuntu3.1_all.deb ...
Unpacking apache2-data (2.4.41-4ubuntu3.1) ...
Selecting previously unselected package apache2-utils.
Preparing to unpack .../apache2-utils_2.4.41-4ubuntu3.1_amd64.deb ...
Unpacking apache2-utils (2.4.41-4ubuntu3.1) ...
Selecting previously unselected package apache2.
Preparing to unpack .../apache2_2.4.41-4ubuntu3.1_amd64.deb ...
Unpacking apache2 (2.4.41-4ubuntu3.1) ...
Setting up apache2 update autha_core.
Enabling module autha_core.
   Get:1 http://us.archive.ubuntu.com/ubuntu focal-updates/main amd64 apache2-data all 2.4.41-4ubuntu3.1 [158 kB]
   Enabling module authn_core.
Enabling module auth_basic.
  Enabling module access_compatEnabling module authn_file.
  Enabling module authz_user
Enabling module alias.
Enabling module dir.
  Enabling module autoindex.
Enabling module env.
   Enabling module mime.
Enabling module negotiation.
  Enabling module setenvif.
Enabling module filter.
        nabling module deflate.
 Setting up apache2-utils (2.4.41-4ubuntu3.1)
Setting up apache2 (2.4.41-4ubuntu3.1) ...
Enabling module mpm_event.
Enabling module authz_core.
Enabling module authz_host.
Enabling module authm_core.
Enabling module auth
   Emabling module authn_core.
Emabling module auth_basic.
Enabling module access_compat.
Emabling module authn_file.
Emabling module authz_user.
Emabling module alias.
Emabling module dir.
Emabling module dir.
    Enabling module autoindex.
Enabling module env.
     Enabling module mime.
Enabling module negotiation.
     Enabling module setenvif
Enabling module filter.
     Enabling module deflate
Enabling module status.
 Enabling module status.

Enabling module reqtimeout.

Enabling conf charset.

Enabling conf localized-error-pages.

Enabling conf ster-vhosts-access-log.

Enabling conf security.

Enabling conf serve-cgi-bin.

Enabling site 000-default.

Created symlink /etc/system/system/multi-user.target.wants/apache2.service →/lib/system/system/apache2.service.

Created symlink /etc/system/system/multi-user.target.wants/apache-htcacheclean.service →/lib/system/system/apache-htcacheclean.service.

Processing triggers for systemd (245.4-4ubuntu3.4) ...

Processing triggers for man-db (2.9.1-1) ...

Processing triggers for ufw (0.36-6) ...

| mcgarcia13701_emcgarcia13701_virtualBox | -/midterms21/questions1
            mcgarcia13701@mcgarcia13701-VirtualBox
```

```
mcgarcia13701@mcgarcia13701-VirtualBox
   $cd /var/www/html/
  mcgarcia13701@mcgarcia13701-VirtualBox |- [/var/www/html]
    ]—[mcgarcia13701@mcgarcia13701-VirtualBox]—[/var/www/html]
     $sudo mv index.html index.html.bk
[sudo] password for mcgarcia13701:
   mcgarcia13701@mcgarcia13701-VirtualBox / /var/www/html
ndex html bk
   mcgarcia13701@mcgarcia13701-VirtualBox
     $cd
   mcgarcia13701@mcgarcia13701-VirtualBox
     $cd ~/midtermS21/question5
   mcgarcia13701@mcgarcia13701-VirtualBox ]-[~/midtermS21/question5]
     $ls
   mcgarcia13701@mcgarcia13701-VirtualBox - ~/midtermS21/question5
     $gzip -dkc <samplesite2.tar.gz> samplesite2.tar
   mcgarcia13701@mcgarcia13701-VirtualBox - ~/midtermS21/question5
    ]-[mcgarcia13701@mcgarcia13701-VirtualBox |-- / midtermS21/question5
   mcgarcia13701@mcgarcia13701-VirtualBox
      $tar -xf samplesite2.tar
   mcqarcia13701@mcqarcia13701-VirtualBox |- [~/midtermS21/question5]
      $ls
  mcgarcia13701@mcgarcia13701-VirtualBox
    $ls
  mcgarcia13701@mcgarcia13701-VirtualBox
   $sudo mv samplesite2 /var/www/html
[sudo] password for mcgarcia13701:
  mcgarcia13701@mcgarcia13701-VirtualBox
    $1s
  mcgarcia13701@mcgarcia13701-VirtualBox
    $cd /var/www/html
  mcgarcia13701@mcgarcia13701-VirtualBox
    $ls
index.html.bk
  mcgarcia13701@mcgarcia13701-VirtualBox
    $sudo systemctl enable apache2
Synchronizing state of apache2.service with SysV service script with /lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable apache2
  mcgarcia13701@mcgarcia13701-VirtualBox
    $sudo systemctl restart apache2
  mcgarcia13701@mcgarcia13701-VirtualBox
```

```
]—[mcgarcia13701@mcgarcia13701-VirtualBox]—[/var/www/html
     $ls samplesite2
                  favicon.ico fullsize index.html scripts.js styles.css@mcgarcia13701-VirtualBox |-|/var/www/html|
   mcgarcia13701@mcgarcia13701-VirtualBox
      $ls -l
total 16
-rw-r--r-- 1 root
                              root
                                             10918 Apr 29 17:40 index.html.bk
            4 mcgarcia13701 mcgarcia13701 4096 Apr 29 20:31
   mcgarcia13701@mcgarcia13701-VirtualBox
     $chmod 777 index.html.bk
chmod: changing permissions of 'index.html.bk': Operation not permitted
    ]—[mcgarcia13701@mcgarcia13701-VirtualBox]—[/var/www/htm
     $chmod 777 samplesite2/
   mcgarcia13701@mcgarcia13701-VirtualBox]-[/var/www/html]
      $ls -l
total 16
-rw-r--r-- 1 root
                                             10918 Apr 29 17:40 index.html.bk
                              root
drwxrwxrwx 4 mcgarcia13701 mcgarcia13701 4096 Apr 29 20:31
   mcgarcia13701@mcgarcia13701-VirtualBox
Creative - Start Bootstrap T × +
← → ♂ ŵ
                      🕡 🗋 localhost/samplesite2/
                                                                                             ... ⊌ ☆
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```

```
mcgarcia13701@mcgarcia13701-VirtualBox
     stat /etc/passwd /etc/group /etc/shadow ~/.bashrc /usr/share/dict/american-english > sizes$
   mcgarcia13701@mcgarcia13701-VirtualBox
     $cat sizes
  File: /etc/passwd
  Size: 2902
                        Blocks: 8
                                            IO Block: 4096
                                                            regular file
Device: 805h/2053d
                                           Links: 1
                      Inode: 1706766
Access: (0644/-rw-r--r--) Uid: ( 0/
Access: 2021-04-29 16:30:01.852439448 -0400
Modify: 2021-02-17 21:26:20.711750712 -0500
Change: 2021-02-17 21:26:20.715750673 -0500
                                           root) Gid: (
                                                                   root)
 Birth:
 File: /etc/group
Size: 1175
                                                             regular file
                        Blocks: 8
                                           IO Block: 4096
Device: 805h/2053d
                                           Links: 1
                        Inode: 1709159
Access: (0644/-rw-r--r--) Uid: ( 0/ r
Access: 2021-04-29 16:30:01.852439448 -0400
                                           root) Gid: (
                                                             0/ root)
Modify: 2021-03-02 20:36:54.291814064 -0500
Change: 2021-03-02 20:36:54.291814064 -0500
Birth:
 File: /etc/shadow
 Size: 1495
                        Blocks: 8
                                           IO Block: 4096
                                                             regular file
                                           Links: 1
Device: 805h/2053d
                        Inode: 1705652
Access: (0640/-rw-r----) Uid: ( 0/
                                           root) Gid: (
                                                             42/ shadow)
Access: 2021-04-29 16:30:01.852439448 -0400
Modify: 2021-02-17 21:26:20.719750636 -0500
Change: 2021-02-17 21:26:20.723750597 -0500
 Birth:
 File: /home/mcgarcia13701/.bashrc
  File: /home/mcgarcia13701/.bashrc
  Size: 4767
                         Blocks: 16
                                                 IO Block: 4096
                                                                     regular file
Device: 805h/2053d
                           Inode: 409073
                                                 Links: 1
Access: 2021-04-28 22:07:22.365785996 -0400
Modify: 2021-04-28 22:07:22.361786020 -0400
Change: 2021-04-28 22:07:22.361786020 -0400
 Birth: ·
 File: /usr/share/dict/american-english
Size: 972398 Blocks: 1904
                                                 IO Block: 4096
                                                                    regular file
                           Blocks: 1904
Device: 805h/2053d
                           Inode: 2886509
                                                 Links: 1
Access: (0644/-rw-r--r--) Uid: ( 0/
                                                          Gid: (
                                                root)
                                                                     0/
                                                                           root)
Access: 2021-04-28 17:40:04.631499083 -0400
Modify: 2018-04-24 19:08:24.000000000 -0400
Change: 2021-02-17 20:46:42.223912403 -0500
 Birth:
   mcgarcia13701@mcgarcia13701-VirtualBox |-[~/midtermS21/question6]
```

```
mcgarcia13701@mcgarcia13701-VirtualBox
Swget https://www.travelocity.com/inspire/wp-content/uploads/2017/11/SunsetFeeling-1024x683.jpg
--2021-04-29 21:25:01-- https://www.travelocity.com/inspire/wp-content/uploads/2017/11/SunsetFeeling-1024x683.jpg
Resolving www.travelocity.com (www.travelocity.com)... 23.59.226.61
Connecting to www.travelocity.com (www.travelocity.com)|23.59.226.61|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 97091 (95K) [image/jpeg]
Saving to: 'SunsetFeeling-1024x683.jpg'
SunsetFeeling-1024x683.ipg
                                       100%[=======>] 94.82K --.-KB/s
                                                                                                                                                 in 0.03s
2021-04-29 21:25:01 (2.95 MB/s) - 'SunsetFeeling-1024x683.jpg' saved [97091/97091]
   mcgarcia13701@mcgarcia13701-VirtualBox |-[~/midtermS21/question7
   mcgarcia13701@mcgarcia13701-VirtualBox |--/midtermS21/question7|
-- $ls ~/midtermS21/question7/SunsetFeeling-1024*683.jpg
   mcgarcia13701@mcgarcia13701-VirtualBox | ~/midtermS21/question7
      $ls -i
    ]—[mcgarcia13701@mcgarcia13701-VirtualBox
      sudo mv SunsetFeeling-1024*683.jpg /usr/share/backgrounds/sunsetfeeling.jpg
[sudo] password for mcgarclai370i:
   mcgarcia13701@mcgarcia13701-VirtualBox
      $ls
   mcgarcia13701@mcgarcia13701-VirtualBox
      $cd
   mcgarcia13701@mcgarcia13701-VirtualBox
bash: /: Is a directory
    M]—[mcgarcia13701@mcgarcia13701-VirtualBox]
      $cd
   mcgarcia13701@mcgarcia13701-VirtualBox
      $cd /usr/share/backgrounds
   mcgarcia13701@mcgarcia13701-VirtualBox]—[/usr/share/backgrounds
      $1s
   mcgarcia13701@mcgarcia13701-VirtualBox
   mcgarcia13701@mcgarcia13701-VirtualBox |- [/usr/share/backgrounds]
```

```
--2021-04-29 22:04:28-- https://robertalberto.com/cis106/midtermfiles/mcu.tar.xz
Resolving robertalberto.com (robertalberto.com)... 34.66.0.162
Connecting to robertalberto.com (robertalberto.com)|34.66.0.162|:443... connected.
HTTM request sent, awaiting response... 200 OK
Length: 470452 (459K) [application/x-xz]
Saving to: 'mcu.tar.xz'
mcu.tar.xz
                                100%[========] 459.43K 1.63MB/s
2021-04-29 22:04:29 (1.63 MB/s) - 'mcu.tar.xz' saved [470452/470452]
     IJ—[mcgarcia13701@mcgarcia13701-VirtualBox
      $mkdir midterm-q8
    mcgarcia13701@mcgarcia13701-VirtualBox
   mcgarcia13701@mcgarcia13701-VirtualBox |-[~/midtermS21/question8]
     $tar -xf mcu.tar.xz
    mcgarcia13701@mcgarcia13701-VirtualBox
     ]—[mcgarcia13701@mcgarcia13701-VirtualBox |-[~/midtermS21/question8
      $mv marverl-movies midterm-q8/
    mcgarcia13701@mcgarcia13701-VirtualBox |- ~/midtermS21/question8
       $ls midterm-q8
    mcgarcia13701@mcgarcia13701-VirtualBox |- [~/midtermS21/question8]
```

```
mcgarcia13701@mcgarcia13701-VirtualBox | -/midtermS21/ques

$ls -hostu *[a-z].* | cut -c15-

mcgarcia13701 21K Apr 29 22:12 avengers.jpeg

mcgarcia13701 17K Apr 29 22:12 iron-man.jpeg

mcgarcia13701 23K Apr 29 22:12 avengers-age-of-ultron.jpeg
   mcgarcia13701 20K Apr 29 22:12 spiderman-far-way-from-home.jpeg
mcgarcia13701 23K Apr 29 22:12 black-panther.jpeg
   mcgarcia13701 19K Apr 29 22:12 btok pointing lipeg
mcgarcia13701 19K Apr 29 22:12 captain-marvel.jpeg
mcgarcia13701 20K Apr 29 22:12 captain-marvel.jpeg
mcgarcia13701 17K Apr 29 22:12 thor.jpeg
mcgarcia13701 18K Apr 29 22:12 thor-the-dark-world.jpeg
   mcgarcia13701 24K Apr 29 22:12 avengers-endgame.jpeg
   mcgarcia13701 26K Apr 29 22:12 thor-ragnarok.jpeg
   mcgarcia13701 18K Apr 29 22:12 ant-man-and-the-wasp.jpeg
   mcgarcia13701 18K Apr 29 22:12 captain-america-the-first-avenger.jpeg
mcgarcia13701 24K Apr 29 22:12 doctor-strange.jpeg
   mcgarcia13701 19K Apr 29 22:12 ant-man.jpeg
   mcgarcia13701 19K Apr 29 22:12 spiderman-homecoming.jpeg
   mcgarcia13701 18K Apr 29 22:12 the-incredible-hulk.jpeg
   mcgarcia13701 23K Apr 29 22:12 avengers-infinity-war.jpeg
mcgarcia13701 21K Apr 29 22:12 captain-america-civil-war.jpeg
   mcgarcia13701@mcgarcia13701-VirtualBox
    mcgarcia13701 21K Apr 29 22:12 captain-america-civil-war.jpeg
mcgarcia13701@mcgarcia13701-VirtualBox
    mcgarcia13701@mcgarcia13701-VirtualBox
        mkdir {Antman,Avengers,B-Panther,Captain-America,Doctor-S,Guardians,Iron-Man,Spiderman,Hulk,Thor}
    mcgarcia13701@mcgarcia13701-VirtualBox
       $mv ant* Antman
    mcgarcia13701@mcgarcia13701-VirtualBox
$mv avengers* Avengers
    mcgarcia13701@mcgarcia13701-VirtualBox
        mv black* B-Panther
    mcgarcia13701@mcgarcia13701-VirtualBox
- $mv captain* Captain-America
    mcgarcia13701@mcgarcia13701-VirtualBox
        mv doctor* Doctor-S
    mcgarcia13701@mcgarcia13701-VirtualBox
- $mv guard* Guardians
mcgarcia13701@mcgarcia13701-VirtualBox
         mv iron* Iron-Man
    mcgarcia13701@mcgarcia13701-VirtualBox
— $mv spider* Spiderman
     mcgarcia13701@mcgarcia13701-VirtualBox
        mv hulk* Hulk
     ncgarcia13701<mark>@mcgarcia13701-VirtualBo</mark>x
        mv iron* Iron-Man
   mcgarcia13701@mcgarcia13701-VirtualBox
— $mv spider* Spiderman
    mcgarcia13701@mcgarcia13701-VirtualBox
        mv hulk* Hulk
    cannot stat 'hulk*': No such file or directory
     ]<mark>-[mcgarcia13701@mcgarcia13701-VirtualBox</mark>]-[~/midtermS21/question8/midterm-q8/marverl-movies
• $mv the* Hulk
    mcgarcia13701@mcgarcia13701-VirtualBox
        mv thor* Thor
    mcgarcia13701@mcgarcia13701-VirtualBox
   mcgarcia13701@mcgarcia13701-VirtualBox | [~/r

- $ls -l | cut -d ' ' --complement -s -f3,4
 otal 40
drwxrwxr-x 2 4096 Apr 30 00:38 Antman
drwxrwxr-x 2 4096 Apr 30 00:38 Avengers
drwxrwxr-x 2 4096 Apr 30 00:39 B-Panther
drwxrwxr-x 2 4096 Apr 30 00:39 Captain-America
drwxrwxr-x 2 4096 Apr 30 00:39 Doctor-S
drwxrwxr-x 2 4096 Apr 30 00:39 Guardians
drwxrwxr-x 2 4096 Apr 30 00:40 Hulk
drwxrwxr-x 2 4096 Apr 30 00:40 Iron-Man
drwxrwxr-x 2 4096 Apr 30 00:40 Spiderman
drwxrwxr-x 2 4096 Apr 30 00:40 Thor
   mcgarcia13701@mcgarcia13701-VirtualBox
```

```
mcgarcia13701@mcgarcia13701-VirtualBox
       wget https://robertalberto.com/cis106/midtermfiles/vgc.tar.xz
--2021-04-30 01:16:54-- https://robertalberto.com/cis106/midtermfiles/vgc.tar.xz
Resolving robertalberto.com (robertalberto.com)... 34.66.0.162
Connecting to robertalberto.com (robertalberto.com)|34.66.0.162|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 151728 (148K) [application/x-xz]
Saving to: 'vgc.tar.xz'
                                               100%[========] 148.17K 478KB/s
                                                                                                                                                                              in 0.3s
vgc.tar.xz
   1-04-30 01:16:55 (478 KB/s) - 'vgc.tar.xz' saved [151728/151728]
   mcgarcia13701@mcgarcia13701-VirtualBox
   mcgarcia13701@mcgarcia13701-VirtualBox
   $cd ~/midlerm521/question9
mcgarcia13701@mcgarcia13701-VirtualBox
      $mkdir midterm-q9
   mcgarcia13701@mcgarcia13701-VirtualBox
     mcgarcia13701@mcgarcia13701-VirtualBox
        $cd ~/midtermS21/question9
    mcgarcia13701@mcgarcia13701-VirtualBox
    mcgarcia13701@mcgarcia13701-VirtualBox
    - $tar -xf vgc.tar.xz
mcgarcta13701@mcgarcta13701-VirtualBox
    mcgarcia13701@mcgarcia13701-VirtualBox
        $mv videogame-consoles midterm-q9/
    mcgarcia13701@mcgarcia13701-VirtualBox
    mcgarcia13701@mcgarcia13701-VirtualBox
    mcgarcia13701@mcgarcia13701-VirtualBox
    mcgarcia13701@mcgarcia13701-VirtualBox
    - $cd videogame-consoles
mcgarcia13701@mcgarcia13701-VirtualBox
    - $ls
ntendo-64-1996.jpeg
ntendo-color-tv-game-1977-1980.jpeg
ntendo-entertaiment-system-1983.jpeg
ntendo-GameCube-2001.jpeg
                                                    nintendo-Wii-2006.jpeg Playstation-4-2013.jpeg
nintendo-Wii-U-2012.jpeg Playstation-5-2020.jpeg
Playstation-1-1994.jpeg Super-Nintendo-Entertainment-System-1990.jpeg
Playstation-3-2006.jpeg > 01.jpeg
    mcgarcia13701@mcgarcia13701-VirtualBox
    - $ls
htendo-64-1996.jpeg
htendo-color-tv-game-1977-1980.jpeg
    mcgarcia13701@mcgarcia13701-VirtualBox | ~/midtermS21/question9/midterm-q9/videogame-consoles
    mcgarcia13701@mcgarcia13701-VirtualBox
    mcgarcia13701@mcgarcia13701-VirtualBox
```

```
mcgarcia13701@mcgarcia13701-VirtualBox
   mkdir Year1970 Year1980 Year1990 Year2000 Year2010 Year2020
mcgarcia13701@mcgarcia13701-VirtualBox
mcgarcia13701@mcgarcia13701-VirtualBox
mcgarcia13701@mcgarcia13701-VirtualBox
   mv *-2020.jp* Year2020
mcgarcia13701@mcgarcia13701-VirtualBox
   mv *-201?.jp* Year2010
mcgarcia13701@mcgarcia13701-VirtualBox
- $mv *-200?.jp* Year2000
mcgarcia13701@mcgarcia13701-VirtualBox
   mv *-199?.jp* Year1990
mcgarcia13701@mcgarcia13701-VirtualBox
   cp *-1980.jpeg* Year1980
mcgarcia13701@mcgarcia13701-VirtualBox
— $mv *-2000-.jp* Year2000
mcgarcia13701@mcgarcia13701-VirtualBox
Smv *-198?.jp* Year 1980
target '1980' is not a directory
]-[mcgarcia13701@mcgarcia13701-VirtualBox
mcgarcia13701@mcgarcia13701-VirtualBox
```

- In my opinion, the hardest question was Question #5. The reason is because I had to keep refreshing thr website and checking on my progress to fix the website.
- In my opinion, the easiest question had to be question #6. The reason is because I was able to complete this question with only two commands.
- What would have made the midterm easier is if the user(myself) had tried out the commands excessively.
- Even though you might just be going over the basics of Linux I feel like I have learned a whole new universe. Out of all the classes I can really say I learned the most in this class especially knowledge I will have way after.
- I have never really taken an exam like this before but it really made me think like I have never before. Trying to figure out your way to do things or fix it can be time consuming but if you have knowledge you will do it one way or the other.